GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: August 9, 2005, 13:09:36 ; Search time 18.1655 Seconds
(without alignments)
1804.019 Million cell updates/sec

Title: US-09-319-724B-1
Perfect score: 2347
Sequence: 1 MYIDDLPIWGIVGEADENGE.....FYFGYMAVFSTALGIMCGAI 439

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
1: /cgn2_6/ptodata/1/iaa/5A_COMB.pep:*
2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep:*
3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep:*
4: /cgn2_6/ptodata/1/iaa/6B_COMB.pep:*
5: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/1/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	2347	100.0	579	4	US-09-786-681A-4	Sequence 4, Appli
2	2347	100.0	582	4	US-09-786-681A-2	Sequence 2, Appli
3	1107	47.2	257	4	US-09-270-767-32308	Sequence 32308, A
4	842.5	35.9	625	3	US-08-959-004-10	Sequence 10, Appl
5	746.5	31.8	663	3	US-08-959-004-5	Sequence 5, Appli
6	746.5	31.8	676	4	US-09-949-016-9494	Sequence 9494, Ap
7	603	25.7	667	3	US-08-959-004-11	Sequence 11, Appl
8	546	23.3	133	4	US-09-270-767-44213	Sequence 44213, A
9	546	23.3	133	4	US-09-270-767-59636	Sequence 59636, A
10	419	17.9	241	4	US-09-248-796A-20311	Sequence 20311, A
11	364	15.5	87	4	US-09-513-999C-7785	Sequence 7785, Ap
12	159	6.8	218	4	US-09-270-767-46281	Sequence 46281, A
13	135	5.8	111	4	US-09-513-999C-7579	Sequence 7579, Ap
14	127	5.4	574	4	US-09-107-433-3877	Sequence 3877, Ap
15	127	5.4	605	4	US-09-583-110-4773	Sequence 4773, Ap
16	120.5	5.1	513	4	US-09-543-681A-8279	Sequence 8279, Ap
17	118.5	5.0	496	3	US-09-134-001C-3703	Sequence 3703, Ap
18	115	4.9	502	4	US-09-328-352-6968	Sequence 6968, Ap
19	109	4.6	468	4	US-09-710-279-868	Sequence 868, App
20	109	4.6	468	4	US-09-710-279-1618	Sequence 1618, Ap
21	108.5	4.6	584	4	US-09-693-746-22	Sequence 22, Appl
22	107.5	4.6	408	2	US-08-742-440A-6	Sequence 6, Appli
23	107	4.6	353	4	US-09-576-160B-6	Sequence 6, Appli
24	106	4.5	237	3	US-09-134-001C-3057	Sequence 3057, Ap
25	105	4.5	504	4	US-09-489-039A-8489	Sequence 8489, Ap
26	104	4.4	511	4	US-09-107-532A-6112	Sequence 6112, Ap
27	103	4.4	822	4	US-09-824-734-3	Sequence 3, Appli
28	102.5	4.4	402	4	US-09-270-767-35644	Sequence 35644, A
29	102.5	4.4	402	4	US-09-270-767-50861	Sequence 50861, A
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32	101	4.3	453	1	US-08-440-674-4	Sequence 4, Appli
33	101	4.3	453	4	US-08-879-337-6	Sequence 6, Appli
34	98.5	4.2	265	4	US-09-134-000C-5847	Sequence 5847, Ap
35	98.5	4.2	305	4	US-09-583-110-3512	Sequence 3512, Ap
36	97.5	4.2	436	4	US-09-949-016-11448	Sequence 11448, A
37	97.5	4.2	470	2	US-08-724-394A-10	Sequence 10, Appl
38	97	4.1	549	4	US-09-115-150-4	Sequence 4, Appli
39	97	4.1	592	4	US-09-949-016-6953	Sequence 6953, Ap
40	97	4.1	609	4	US-09-949-016-8961	Sequence 8961, Ap
41	97	4.1	609	4	US-09-949-016-8962	Sequence 8962, Ap
42	96.5	4.1	572	4	US-09-949-016-11237	Sequence 11237, A
43	96.5	4.1	572	4	US-09-949-016-11238	Sequence 11238, A
44	96	4.1	490	4	US-09-134-000C-5122	Sequence 5122, Ap
45	95.5	4.1	669	4	US-09-575-081B-25	Sequence 25, Appl

ALIGNMENTS

RESULT 1
US-09-786-681A-4
; Sequence 4, Application US/09786681A
; Patent No. 6692926
; GENERAL INFORMATION:
; APPLICANT: HIDAKA , Jun et al.
; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING L
; TITLE OF INVENTION: BINDING ACTIVITIES, AND THEIR USES
; FILE REFERENCE: 0020-4827P
; CURRENT APPLICATION NUMBER: US/09/786,681A
; CURRENT FILING DATE: 2001-01-24
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 4
; LENGTH: 579
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-786-681A-4

Query Match 100.0%; Score 2347; DB 4; Length 579;
Best Local Similarity 100.0%; Pred. No. 4.9e-225;
Matches 439; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy         61 SYSVKWKKSDVKFEDRFDKYLDPSFFQHRIHWFSIFNSFMMVIFLVGLVSMILMRTLRKD 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        182 SYSVKWKKSDVKFEDRFDKYLDPSFFQHRIHWFSIFNSFMMVIFLVGLVSMILMRTLRKD 241

Qy        121 YARYSKEEEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVIIV 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        242 YARYSKEEEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVIIV 301

Qy        181 AMIEDLYTERGSMLSTAIFVYAATSPVNGYFGGSLYARQGGRRWIKQMFIGAFLIPAMVC 240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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Qy        241 GTAFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCRVN 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        362 GTAFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCRVN 421

Qy        301 AVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIFTSFWAYKIYYVYGFMMLVLVIL 360
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        422 AVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIFTSFWAYKIYYVYGFMMLVLVIL 481

Qy        361 CIVTVCVTIVCTYFLLNAEDYRWQWTSFLSAASTAIYVYMYSFYYYFFKTKMYGLFQTSF 420
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Qy        421 YFGYMAVFSTALGIMCGAI 439
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RESULT 2
US-09-786-681A-2
; Sequence 2, Application US/09786681A
; Patent No. 6692926
; GENERAL INFORMATION:
;  APPLICANT: HIDAKA , Jun et al.
;  TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING L
;  TITLE OF INVENTION:  BINDING ACTIVITIES, AND THEIR USES
;  FILE REFERENCE: 0020-4827P
;  CURRENT APPLICATION NUMBER: US/09/786,681A
;  CURRENT FILING DATE:  2001-01-24
;  NUMBER OF SEQ ID NOS: 7
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
;   LENGTH: 582
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-786-681A-2

  Query Match             100.0%;  Score 2347;  DB 4;  Length 582;
  Best Local Similarity   100.0%;  Pred. No. 4.9e-225;
  Matches  439;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

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Db        125 MYIDDLPIWGIVGEADENGEDYYLWTYKKLEIGFNGNRIVDVNLTSEGKVKLVPNTKIQM 184

Qy         61 SYSVKWKKSDVKFEDRFDKYLDPSFFQHRIHWFSIFNSFMMVIFLVGLVSMILMRTLRKD 120
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Qy        121 YARYSKEEEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVIIV 180
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Qy        241 GTAFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCRVN 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        365 GTAFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCRVN 424

Qy        301 AVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIFTSFWAYKIYYVYGFMMLVLVIL 360
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        425 AVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIFTSFWAYKIYYVYGFMMLVLVIL 484

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Qy        421 YFGYMAVFSTALGIMCGAI 439
              |||||||||||||||||||
Db        545 YFGYMAVFSTALGIMCGAI 563


RESULT 3
US-09-270-767-32308
; Sequence 32308, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 32308
;   LENGTH: 257
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
US-09-270-767-32308

  Query Match             47.2%;  Score 1107;  DB 4;  Length 257;
  Best Local Similarity   78.2%;  Pred. No. 5e-102;
  Matches  201;  Conservative   27;  Mismatches   29;  Indels    0;  Gaps    0;

Qy         62 YSVKWKKSDVKFEDRFDKYLDPSFFQHRIHWFSIFNSFMMVIFLVGLVSMILMRTLRKDY 121
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Db          1 YEVNWKPSKVEFKNRFDKYLDPNFFQHRIHWFSIFNSFMMVIFLVGLVSMILMRTLRKDY 60

Qy        122 ARYSKEEEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVIIVA 181
              |||||:||:|||:||||||||||||||||||    : |:||:|:|:| |: :|   ||: |
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Qy        182 MIEDLYTERGSMLSTAIFVYAATSPVNGYFGGSLYARQGGRRWIKQMFIGAFLIPAMVCG 241
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Qy        242 TAFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCRVNA 301
              ||| |||||| |||||||||||||| ||| |||||| ||||::|||| |||:|||||||
Db        181 TAFLINFIAIGYHASRAIPFGTMVAVTCICLFVILPLTLVGTVVGRNLDGQPDFPCRVNA 240

Qy        302 VPRPIPEKKWFMEPAVI 318
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RESULT 4
US-08-959-004-10
; Sequence 10, Application US/08959004
; Patent No. 6197543
;  GENERAL INFORMATION:
;    APPLICANT:  Hillman, Jennifer L.
;    APPLICANT:  Yue, Henry
;    APPLICANT:  Corley, Neil C.
;    APPLICANT:  Lal, Preeti
;    APPLICANT:  Shah, Purvi
;    APPLICANT:  Kaser, Matthew
;    TITLE OF INVENTION:  HUMAN VESICLE MEMBRANE PROTEIN-LIKE
;    TITLE OF INVENTION:  PROTEINS
;    NUMBER OF SEQUENCES:  11
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Incyte Pharmaceuticals, Inc.
;      STREET:  3174 Porter Drive
;      CITY:  Palo Alto
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94304
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/959,004
;      FILING DATE:  Herewith
;      CLASSIFICATION:  514
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Billings, Lucy J.
;      REGISTRATION NUMBER:  36,749
;      REFERENCE/DOCKET NUMBER:  PF-0414 US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  650-855-0555
;      TELEFAX:  650-845-4166
;      TELEX:
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;  INFORMATION FOR SEQ ID NO:  10:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  625 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    IMMEDIATE SOURCE:
;      LIBRARY:  GenBank
;      CLONE:  1665777
US-08-959-004-10

  Query Match             35.9%;  Score 842.5;  DB 3;  Length 625;
  Best Local Similarity   39.9%;  Pred. No. 3.6e-75;
  Matches  175;  Conservative   83;  Mismatches  158;  Indels   23;  Gaps    6;

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Db        175 EDMEEDQEHTYRVVRFEVIPQSIRLEDLKADEKSSCTLPEGTNSSPQEIDPTKENQLYFT 234

Qy         62 YSVKWKKSDVKFEDRFDKYLDPSFFQHRIHWFSIFNSFMMVIFLVGLVSMILMRTLRKDY 121
              ||| |::||:|:  |:| ||  |  |  |||||| || ::| || |::|||::||||||
Db        235 YSVHWEESDIKWASRWDTYLTMSDVQ--IHWFSIINSVVVVFFLSGILSMIIIRTLRKDI 292

Qy        122 ARYSKEEEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVIIVA 181
              | |:||::::    |  :| ||| ||||||||  :|:| |||:||| |:| : |||| ||
Db        293 ANYNKEDDIE----DTMEESGWKLVHGDVFRPPQYPMILSSLLGSGIQLFCMILIVIFVA 348

Qy        182 MIEDLY-TERGSMLSTAIFVYAATSPVNGYFGGSLYARQGGRRWIKQMFIGAFLIPAMVC 240
              |:  |  : ||:::|| |::       |:  | ||    | || |  |  | | | :|
Db        349 MLGMLSPSSRGALMTTACFLFMFMGVFGGFSAGRLYRTLKGHRWKKGAFCTATLYPGVVF 408

Qy        241 GTAFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCRVN 300
              | | :|     |:| |:|| ||||: |: | : |||  :|   |       | | | |
Db        409 GICFVLNCFIWGKHSSGAVPFPTMVALLCMWFGISLPLVYLGYYFGFRKQPYDN-PVRTN 467

Qy        301 AVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIFTSFWAYKIYYVYGFMMLVLVIL 360
               :|| |||::|:|   | : : ||||||::|||::|||:: |  : ||::||: || :||
Db        468 QIPRQIPEQRWYMNRFVGILMAGILPFGAMFIELFFIFSAIWENQFYYLFGFLFLVFIIL 527

Qy        361 CIVTVCVTIVCTYFLLNAEDYRWQWTSFLSAASTAIYVYMYSFYYYFFKTKMYGLFQTSF 420
              :   ::||  || | |||||| | :|| :  :| || :|: :|:  |  :     :
Db        528 VVSCSQISIVMVYFQLCAEDYRWWWRNFLVSGGSAFYVLVYAIFYFVNKLDIVEFIPSLL 587

Qy        421 YFGYMAVFSTALGIMCGAI 439
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Db        588 YFGYTALMVLSFWLLTGTI 606


RESULT 5
US-08-959-004-5
; Sequence 5, Application US/08959004
; Patent No. 6197543
;  GENERAL INFORMATION:
;    APPLICANT:  Hillman, Jennifer L.
;    APPLICANT:  Yue, Henry
;    APPLICANT:  Corley, Neil C.
;    APPLICANT:  Lal, Preeti
;    APPLICANT:  Shah, Purvi
;    APPLICANT:  Kaser, Matthew
;    TITLE OF INVENTION:  HUMAN VESICLE MEMBRANE PROTEIN-LIKE
;    TITLE OF INVENTION:  PROTEINS
;    NUMBER OF SEQUENCES:  11
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Incyte Pharmaceuticals, Inc.
;      STREET:  3174 Porter Drive
;      CITY:  Palo Alto
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94304
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/959,004
;      FILING DATE:  Herewith
;      CLASSIFICATION:  514
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Billings, Lucy J.
;      REGISTRATION NUMBER:  36,749
;      REFERENCE/DOCKET NUMBER:  PF-0414 US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  650-855-0555
;      TELEFAX:  650-845-4166
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  5:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  663 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    IMMEDIATE SOURCE:
;      LIBRARY:  ADRETUT06
;      CLONE:  2822412
US-08-959-004-5

  Query Match             31.8%;  Score 746.5;  DB 3;  Length 663;
  Best Local Similarity   34.2%;  Pred. No. 1.4e-65;
  Matches  155;  Conservative   93;  Mismatches  160;  Indels   45;  Gaps    9;

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Qy         49 KVKLVPNTKIQMSYSVKWKKSD-VKFEDRFDKYLDPSFFQHRIHWFSIFNSFMMVIFLVG 107
              ::       ||  :||| ::: | :::  |:|  |:      | | |||| || ::|:|| |
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Qy        168 CQIFAVSLIVIIVAMIEDLY-TERGSMLSTAIFVYAATSPVNGYFGGSLYARQGGRRWIK 226
               ||  :: : :  | :  |     ||:::: |: ::        ||      |   || :|
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Qy        227 QMFIGAFLIPAMVCGTAFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILG 286
              : : :|| | :|     | :| |      :| ||||||:||:  : | : :||  :|   |
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Qy        287 RNLSGQPNFPCRVNAVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIFTSFWAYKI 346
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Db        493 FKKNAIEH-PVRTNQIPRQIPEQSFYTKPLPGIIMGGILPFGCIFIQLFFILNSIWSHQM 551

Qy        347 YYVYGFMMLVLVILCIVTVCVTIVCTYFLLNAEDYRWQWTSFLSAASTAIYVYMYSFYYY 406
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Qy        407 FFKTKMYGLFQTSFYFGYMAVFSTALGIMCGAI 439
              | | :: |   |  ||||  :      :  | |
Db        612 FSKLQITGTASTILYFGYTMIMVLIFFLFTGTI 644


RESULT 6
US-09-949-016-9494
; Sequence 9494, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
```

```
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9494
;   LENGTH: 676
;   TYPE: PRT
;   ORGANISM: Human
US-09-949-016-9494

  Query Match             31.8%;  Score 746.5;  DB 4;  Length 676;
  Best Local Similarity   34.2%;  Pred. No. 1.4e-65;
  Matches  155;  Conservative   93;  Mismatches  160;  Indels   45;  Gaps    9;

Qy         20 EDYYLWT-------YKKLEIGFNGNRIV-----------------------DVNLTSEG 48
              : :|::        |  :| |  | |:|                       |::  : |
Db        217 DTFYIFNHVDIKIYYHVVETGSMGARLVAAKLEPKSFKHTHIDKPDCSGPPMDISNKASG 276

Qy         49 KVKLVPNTKIQMSYSVKWKKSD-VKFEDRFDKYLDPSFFQHRIHWFSIFNSFMMVIFLVG 107
              ::      ||  :||| ::: | :::  |:|  |:     | | |||| || ::|:|| |
Db        277 EI------KIAYTYSVSFEEDDKIRWASRWDYILESMPHTH-IQWFSIMNSLVIVLFLSG 329

Qy        108 LVSMILMRTLRKDYARYSKEEEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSG 167
              :|:||::||| || |||:   :||  : |  :|:||| ||||:|||    :: |  :|||
Db        330 MVAMIMLRTLHKDIARYN---QMDSTE-DAQEEFGWKLVHGDIFRPPRKGMLLSVFLGSG 385

Qy        168 CQIFAVSLIVIIVAMIEDLY-TERGSMLSTAIFVYAATSPVNGYFGGSLYARQGGRRWIK 226
               ||  :: : :  | :  |    ||:::: |: ::       ||      |   || :|
Db        386 TQILIMTFVTLFFACLGFLSPANRGALMTCAVVLWVLLGTPAGYVAARFYKSFGGEKWKT 445

Qy        227 QMFIGAFLIPAMVCGTAFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILG 286
              : : :|| | :|    | :| |      :| |||||:||:  : | : :||  :|   |
Db        446 NVLLTSFLCPGIVFADFFIMNLILWGEGSSAAIPFGTLVAILALWFCISVPLTFIGAYFG 505

Qy        287 RNLSGQPNFPCRVNAVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIFTSFWAYKI 346
              :   : | | | :|| ||| : :|   : :|||||| |||:::||  | |::::
Db        506 FKKNAIEH-PVRTNQIPRQIPEQSFYTKPLPGIIMGGILPFGCIFIQLFFILNSIWSHQM 564

Qy        347 YYVYGFMMLVLVILCIVTVCVTIVCTYFLLNAEDYRWQWTSFLSAASTAIYVYMYSFYYY 406
              ||:||: || :|| |     ||:  || | |||| ||| |||::  ||:|  :|: :|:
Db        565 YYMFGFLFLVFIILVITCSEATILLCYFHLCAEDYHWQWRSFLTSGFTAVYFLIYAVHYF 624

Qy        407 FFKTKMYGLFQTSFYFGYMAVFSTALGIMCGAI 439
              | | :: |   |  ||||  :      :  | |
Db        625 FSKLQITGTASTILYFGYTMIMVLIFFLFTGTI 657


RESULT 7
US-08-959-004-11
; Sequence 11, Application US/08959004
; Patent No. 6197543
;  GENERAL INFORMATION:
;    APPLICANT:  Hillman, Jennifer L.
;    APPLICANT:  Yue, Henry
;    APPLICANT:  Corley, Neil C.
;    APPLICANT:  Lal, Preeti
;    APPLICANT:  Shah, Purvi
;    APPLICANT:  Kaser, Matthew
;    TITLE OF INVENTION:  HUMAN VESICLE MEMBRANE PROTEIN-LIKE
;    TITLE OF INVENTION:  PROTEINS
;    NUMBER OF SEQUENCES:  11
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Incyte Pharmaceuticals, Inc.
;      STREET:  3174 Porter Drive
;      CITY:  Palo Alto
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94304
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/959,004
;      FILING DATE:  Herewith
;      CLASSIFICATION:  514
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Billings, Lucy J.
;      REGISTRATION NUMBER:  36,749
;      REFERENCE/DOCKET NUMBER:  PF-0414 US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  650-855-0555
;      TELEFAX:  650-845-4166
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  11:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  667 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    IMMEDIATE SOURCE:
;      LIBRARY:  GenBank
;      CLONE:  2131246
US-08-959-004-11

  Query Match             25.7%;  Score 603;  DB 3;  Length 667;
  Best Local Similarity   33.3%;  Pred. No. 2.7e-51;
  Matches  130;  Conservative   77;  Mismatches  167;  Indels   16;  Gaps    7;

Qy         55 NTKIQMSYSVKWKKSDVKFEDRFDKYL---DPSFFQHRIHWFSIFNSFMMVIFLVGLVSM 111
              : ::  :||||: :|   :  |:||||   |||      | |||: |  ::|: |  :|
Db        270 DNEVYFTYSVKFNESATSWATRWDKYLHVYDPS-----IQWFSLINFSLVVVLLSSVVIH 324

Qy        112 ILMRTLRKDYARYSKEEEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIF 171
              |:| |: |:|||: |  :||   |  :: |||  ||||||  |  |  | |:||| |:|
Db        325 SLLRALKSDFARYN-ELNLDD---DFQEDSGWKLNHGDVFRSPSQSLTLSILVGSGVQLF 380

Qy        172 AVSLIVIIVAMIEDLY-TERGSMLSTAIFVYAATSPVNGYFGGSLYARQGGRRWIKQMFI 230
               :    |  | :  |  : |||: :    :||    |  |    :|    |  |   : :
Db        381 LMVTCSIFFAALGFLSPSSRGSLATVMFILYALFGFVGSYTSMGIYKFFNGPYWKANLIL 440

Qy        231 GAFLIPAMVCGTAFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLS 290
              |:|  :      :||  :: |:|  ||  |:  :  : |   :||:  |::: |
Db        441 TPLLVPGAILLIIIALNFFLMFVHSSGVIPASTLFFMVFLWFLFSIPLSFAGSLIARKRC 500

Qy        291 GQPNFPCRVNAVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIFTSFWAYKIYYVY 350
                | : | : | || : |:::      : || ||||| :|:|||:|| |  ||:|::
Db        501 HWDEHPTKTNQIARQIPFQPWYLKTIPATLIAGIFPFGSIAVELYFIYTSLWFNKIFYMF 560

Qy        351 GFMMLVLVILCIVTVCVTIVCTYFLLNAEDYRWQWTSF-LSAASTAIYVYMYSFYYYFFK 409
              ||:    ::| : :  |||: ||  |  |:::|||  | :  |  |:||:::|    | |
Db        561 GFLFFSFLLLTLTSSLVTILITYHSLCLENWKWQWRGFIIGGAGCALYVFIHSI--LFTK 618

Qy        410 TKMYGLFQTSFYFGYMAVFSTALGIMCGAI 439
               |: |      | || :| |    :: |:|
Db        619 FKLGGFTTIVLYVGYSSVISLLCCLVTGSI 648


RESULT 8
US-09-270-767-44213
; Sequence 44213, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
```

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;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 44213
;    LENGTH: 133
;    TYPE: PRT
;    ORGANISM: Drosophila melanogaster
US-09-270-767-44213

  Query Match             23.3%;  Score 546;  DB 4;  Length 133;
  Best Local Similarity   84.2%;  Pred. No. 1.5e-46;
  Matches   96;  Conservative   11;  Mismatches    7;  Indels    0;  Gaps    0;

Qy        326 PFGSIFIEMYFIFTSFWAYKIYYVYGFMMLVLVILCIVTVCVTIVCTYFLLNAEDYRWQW 385
              ||||||||||||||||||||||||||||||:||  || :||||||||||||||||||||||
Db          1 PFGSIFIEMYFIFTSFWAYKIYYVYGFMLLVFSILTVVTVCVTIVCTYFLLNAEDYRWQW 60

Qy        386 TSFLSAASTAIYVYMYSFYYYFFKTKMYGLFQTSFYFGYMAVFSTALGIMCGAI 439
              |||::| ||:|||| |||||:||||||:|||||:||||||:|| ||||:|| :
Db         61 TSFMAAGSTSIYVYAYSFYYFFFKTKMFGLFQTAFYFGYMALFSGALGIICGTV 114


RESULT 9
US-09-270-767-59636
; Sequence 59636, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 59636
;    LENGTH: 133
;    TYPE: PRT
;    ORGANISM: Drosophila melanogaster
US-09-270-767-59636

  Query Match             23.3%;  Score 546;  DB 4;  Length 133;
  Best Local Similarity   84.2%;  Pred. No. 1.5e-46;
  Matches   96;  Conservative   11;  Mismatches    7;  Indels    0;  Gaps    0;

Qy        326 PFGSIFIEMYFIFTSFWAYKIYYVYGFMMLVLVILCIVTVCVTIVCTYFLLNAEDYRWQW 385
              ||||||||||||||||||||||||||||||:||  || :||||||||||||||||||||||
Db          1 PFGSIFIEMYFIFTSFWAYKIYYVYGFMLLVFSILTVVTVCVTIVCTYFLLNAEDYRWQW 60

Qy        386 TSFLSAASTAIYVYMYSFYYYFFKTKMYGLFQTSFYFGYMAVFSTALGIMCGAI 439
              |||::| ||:|||| |||||:||||||:|||||:||||||:|| ||||:|| :
Db         61 TSFMAAGSTSIYVYAYSFYYFFFKTKMFGLFQTAFYFGYMALFSGALGIICGTV 114


RESULT 10
US-09-248-796A-20311
; Sequence 20311, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
;  APPLICANT: Keith Weinstock et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 107196.132
;  CURRENT APPLICATION NUMBER: US/09/248,796A
;  CURRENT FILING DATE:  1999-02-12
;  PRIOR APPLICATION NUMBER: US 60/074,725
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: US 60/096,409
;  PRIOR FILING DATE: 1998-08-13
;  NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 20311
;    LENGTH: 241
;    TYPE: PRT
;    ORGANISM: Candida albicans
US-09-248-796A-20311

  Query Match             17.9%;  Score 419;  DB 4;  Length 241;
  Best Local Similarity   36.4%;  Pred. No. 1.5e-33;
  Matches   82;  Conservative   46;  Mismatches   85;  Indels   12;  Gaps    4;

Qy        220 GGRRWIKQMFIGAFLIPAMVCGTAFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLN 279
              ||  |   ||:   |:| ::      :||  |   :| ||  ||| |:  | | : :||:
Db          5 GGDNWKLNMFLTPVLVPGILSLVFVVLNFFLISVQSSGAIHMGTMFAIVLIWFIISIPLS 64

Qy        280 LVGTILGRNLSGQP--NFPCRVNAVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFI 337
              ::|:||  |   :|  : | | | :|| || : |::    :: : || |||||| :|||||
Db         65 VIGSILASN---RPLLSVPVRTNQIPRQIPTQPWYLSTIPVMFISGIFPFGSIAVEMYFI 121

Qy        338 FTSFWAYKIYYVYGFMMLVLVILCIVTVCVTIVCTYFLLNAEDYRWQWTSFLSAASTAIY 397
              ::| |  ||:|::||:   ::: : :  :||:  |: | :|:|:||| |        |||
Db        122 YSSIWFNKIFYMFGFLFFCFILMILTSSLITILMIYYTLCSENYKWQWKSLFVGGGCAIY 181

Qy        398 VYMYSFYYYFFKT---KMYGLFQTSFYFGYMAVFSTALGIMCGAI 439
              |:::|    || |   | |       | || || |  : : ||:|
Db        182 VFIHS----FFLTGGEKFGGFSSLVLYSGYSAVISLLVFLCCGSI 222


RESULT 11
US-09-513-999C-7785
; Sequence 7785, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
;  APPLICANT: Dumas Milne Edwards, J.B.
;  APPLICANT:  Duclert, A.
;  APPLICANT:  Giordano, J.Y.
;  TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6783961
;  FILE REFERENCE: 59.US2.REG
;  CURRENT APPLICATION NUMBER: US/09/513,999C
;  CURRENT FILING DATE:  2000-02-24
;  PRIOR APPLICATION NUMBER: US 60/122,487
;  PRIOR FILING DATE: 1999-02-26
;  NUMBER OF SEQ ID NOS: 36681
;  SOFTWARE: Patent.pm
; SEQ ID NO 7785
;    LENGTH: 87
;    TYPE: PRT
;    ORGANISM: Homo sapiens
;    FEATURE:
;    NAME/KEY: UNSURE
;    LOCATION: 2
;    OTHER INFORMATION: Xaa=Lys or Met or Arg or Thr
;    FEATURE:
;    NAME/KEY: UNSURE
;    LOCATION: 55
;    OTHER INFORMATION: Xaa=Ala or Asp or Gly or Val
;    FEATURE:
;    NAME/KEY: UNSURE
;    LOCATION: 73
;    OTHER INFORMATION: Xaa=Ala or Asp
;    FEATURE:
;    NAME/KEY: UNSURE
;    LOCATION: 74
;    OTHER INFORMATION: Xaa=Lys or Thr
US-09-513-999C-7785

  Query Match             15.5%;  Score 364;  DB 4;  Length 87;
  Best Local Similarity   91.1%;  Pred. No. 1.1e-28;
  Matches   72;  Conservative    0;  Mismatches    7;  Indels    0;  Gaps    0;

Qy        133 MDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVIIVAMIEDLYTERGS 192
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||| |||||||
Db          3 MDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVIIVAMIEXLYTERGS 62

Qy        193 MLSTAIFVYAATSPVNGYF 211
              ||||||||||  ||    |
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```
Db         63 MLSTAIFVYAXXSPSEWLF 81


RESULT 12
US-09-270-767-46281
; Sequence 46281, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 46281
;   LENGTH: 218
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
US-09-270-767-46281

  Query Match             6.8%;  Score 159;  DB 4;  Length 218;
  Best Local Similarity   62.2%;  Pred. No. 1e-07;
  Matches   28;  Conservative    7;  Mismatches   10;  Indels    0;  Gaps    0;

Qy          1 MYIDDLPIWGIVGEADENGEDYYLWTYKKLEIGFNGNRIVDVNLT 45
              |||| ||||| ||| ||    ||::|:|| :||:|| :|||: ||
Db        174 MYIDGLPIWGKVGERDERDGKYYIFTHKKFDIGYNGQQIVDITLT 218


RESULT 13
US-09-513-999C-7579
; Sequence 7579, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
;  APPLICANT: Dumas Milne Edwards, J.B.
;  APPLICANT:  Duclert, A.
;  APPLICANT:  Giordano, J.Y.
;  TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6783961
;  FILE REFERENCE: 59.US2.REG
;  CURRENT APPLICATION NUMBER: US/09/513,999C
;  CURRENT FILING DATE:  2000-02-24
;  PRIOR APPLICATION NUMBER: US 60/122,487
;  PRIOR FILING DATE: 1999-02-26
;  NUMBER OF SEQ ID NOS: 36681
;  SOFTWARE: Patent.pm
; SEQ ID NO 7579
;   LENGTH: 111
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-513-999C-7579

  Query Match             5.8%;  Score 135;  DB 4;  Length 111;
  Best Local Similarity   100.0%;  Pred. No. 1e-05;
  Matches   24;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MYIDDLPIWGIVGEADENGEDYYL 24
              ||||||||||||||||||||||||
Db         88 MYIDDLPIWGIVGEADENGEDYYL 111


RESULT 14
US-09-107-433-3877
; Sequence 3877, Application US/09107433
; Patent No. 6800744
;   GENERAL INFORMATION:
;        APPLICANT: Lynn A Doucette-Stamm  and David Bush
;        TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID
;                            SEQUENCES RELATING TO STREPTOCOCCUS PNEUMONIAE   FOR DIAGNC
;                            THERAPEUTICS
;        NUMBER OF SEQUENCES: 5206
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: GENOME THERAPEUTICS CORPORATION
;             STREET: 100 Beaver Street
;             CITY: Waltham
;             STATE: Massachusetts
;             COUNTRY: USA
;             ZIP: 02354
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: CD/ROM ISO9660
;             COMPUTER: <Unknown>
;             OPERATING SYSTEM: <Unknown>
;             SOFTWARE: <Unknown>
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/107,433
;             FILING DATE: 30-Jun-1998
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: 60/ 085131
;             FILING DATE: May 12, 1998
;             APPLICATION NUMBER: 60/051553
;             FILING DATE: July 2, 1997
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Ariniello, Pamela Deneke
;             REGISTRATION NUMBER: 40,489
;             REFERENCE/DOCKET NUMBER: GTC-011
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (781)893-5007
;             TELEFAX: (781)893-8277
;    INFORMATION FOR SEQ ID NO: 3877:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 574 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        HYPOTHETICAL: YES
;        ORIGINAL SOURCE:
;             ORGANISM: Streptococcus pneumoniae
;        FEATURE:
;             NAME/KEY:  misc_feature
;             LOCATION: (B) LOCATION 1...574
;        SEQUENCE DESCRIPTION: SEQ ID NO: 3877:
US-09-107-433-3877

  Query Match             5.4%;  Score 127;  DB 4;  Length 574;
  Best Local Similarity   19.8%;  Pred. No. 0.00056;
  Matches   73;  Conservative   60;  Mismatches  117;  Indels  118;  Gaps   17;

Qy         85 FFQHRIHWFSIFNSFMMVIFLVGLVSMILMRTLRKDYARYSKEEEMDDMDRDLGDEYG-- 142
              ||: |       |   :  : |: ||:|     :|:||               :| :
Db         33 FFRRR------FYRIVPPVVLMVLVTMPFTFLVRQDYV-----------AGIGGQIASV 74

Qy        143 -------WKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVIIVAMIEDLYTERGSMLS 195
                    :: : |  :     || :|      ::      |  : |  :   : :    |
Db         75 LGFMTNFYELLTGGSYESQFHPHLFVHNWSLAVEVHYYILWGLAVWFL-STHAKSNGQLK 133

Qy        196 TAIFVYAATSPVNGYFGGSLYARQGGRRWIKQMFIGAFLIPAMVCGTAFFINFIAIYYHA 255
                :|: :| : :  :|                |||:||: :    : :| :   :|
Db        134 GMVFLLSAVAFLISFF--------------SMFIGSFLVTSY--SSVYFSSLTHVY--- 173

Qy        256 SRAIPF--GTMVAVCCICFFVILPLNLVG----TILGRNLSGQPNFPCRVNAVPRPIPEK 309
                  ||  |:|:|             :||    | | : |                  :|
Db        174 ----PFFLGSMLA-----------TIVGVRQTTSLVKQL-----------------DK 199

Qy        310 KWFMEPAVIVCLGGILPFGSIFIEMYFI-FTSFWAYKIYYVYGFMMLVLVILCIVTVCVT 368
               | :   ::|  ||   || : :  :|: ||  :|| |    ||::  |  | ::
Db        200 IWDLRKTLVVFGGG---FGFLVLLTFFVKFTYLFAYLI----GFLLASLAALAMILAA-- 250

Qy        369 IVCTYFLLNAEDYRWQ---WTSFLSAASTAIYVYMYSFYYYFFKTK-----------MY 413
                    :|: : :  |     |||:  | |:|:: : ||  | :             |
Db        251 -----RVLHEKTHHIQEPKIISFLADTSYAVYLFHWPFYIIFSQLTSNLLAVLLTLICSY 305

Qy        414 GLFQTSFY 421
              |    |||
Db        306 GFASLSFY 313
```

```
RESULT 15
US-09-583-110-4773
; Sequence 4773, Application US/09583110
; Patent No. 6699703
; GENERAL INFORMATION:
;  APPLICANT:  Lynn Doucette-Stamm et al.
;  TITLE OF INVENTION:  Nucleic Acid and Amino Acid Sequences Relating to Streptococcus
;  TITLE OF INVENTION:  Pneumoniae for Diagnostics and Therapeutics
;  FILE REFERENCE:  PATH00-07A
;  CURRENT APPLICATION NUMBER: US/09/583,110
;  CURRENT FILING DATE:  2000-05-26
;  PRIOR APPLICATION NUMBER:  US 09/107,433
;  PRIOR FILING DATE:  1998-06-30
;  PRIOR APPLICATION NUMBER:  US 60/085,131
;  PRIOR FILING DATE:  1998-05-12
;  PRIOR APPLICATION NUMBER:  US 60/051,553
;  PRIOR FILING DATE:  1997-07-02
;  NUMBER OF SEQ ID NOS:  5322
; SEQ ID NO 4773
;   LENGTH: 605
;   TYPE: PRT
;   ORGANISM: Streptococcus pneumoniae
US-09-583-110-4773

  Query Match             5.4%;  Score 127;  DB 4;  Length 605;
  Best Local Similarity   19.8%;  Pred. No. 0.0006;
  Matches   73;  Conservative   60;  Mismatches  117;  Indels  118;  Gaps   17;

Qy          85 FFQHRIHWFSIFNSFMMVIFLVGLVSMILMRTLRKDYARYSKEEEMDDMDRDLGDEYG-- 142
               ||: |       |   :  : |: ||:|     :|:||               :| :
Db          64 FFRRR------FYRIVPPVVLMVLVTMPFTFLVRQDYV-----------AGIGGQIASV 105

Qy         143 -------WKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVIIVAMIEDLYTERGSMLS 195
                    :: : |  :    || :|         ::    |  : |  :   : :    |
Db         106 LGFMTNFYELLTGGSYESQFHPHLFVHNWSLAVEVHYYILWGLAVWFL-STHAKSNGQLK 164

Qy         196 TAIFVYAATSPVNGYFGGSLYARQGGRRWIKQMFIGAFLIPAMVCGTAFFINFIAIYYHA 255
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Db         165 GMVFLLSAVAFLISFF--------------SMFIGSFLVTSY--SSVYFSSLTHVY--- 204

Qy         256 SRAIPF--GTMVAVCCICFFVILPLNLVG----TILGRNLSGQPNFPCRVNAVPRPIPEK 309
                   ||  |:|:|             :||    | | : |                  :|
Db         205 ----PFFLGSMLA-----------TIVGVRQTTSLVKQL-----------------DK 230

Qy         310 KWFMEPAVIVCLGGILPFGSIFIEMYFI-FTSFWAYKIYYVYGFMMLVLVILCIVTVCVT 368
                | :   ::|  ||   || : :  :|: ||  :|| |    ||::  |  | ::
Db         231 IWDLRKTLVVFGGG---FGFLVLLTFFVKFTYLFAYLI----GFLLASLAALAMILAA-- 281

Qy         369 IVCTYFLLNAEDYRWQ---WTSFLSAASTAIYVYMYSFYYYFFKTK-----------MY 413
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Qy         414 GLFQTSFY 421
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Db         337 GFASLSFY 344


Search completed: August  9, 2005, 13:32:28
Job time : 19.1655 secs
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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: August 9, 2005, 13:22:35 ; Search time 124.847 Seconds
(without alignments)
1801.154 Million cell updates/sec

Title: US-09-319-724B-14
Perfect score: 3089
Sequence: 1 AALWLLLLLLPRTRADEHEH.....IGYMGTSAFVRKIYTNVKID 576

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1752860 seqs, 390397842 residues

Total number of hits satisfying chosen parameters: 1752860

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_AA:*
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19: /cgn2_6/ptodata/2/pubpaa/US11A_PUBCOMB.pep:*
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21: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*
22: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	3089	100.0	579	16	US-10-755-466-4	Sequence 4, Appli
2	3089	100.0	582	16	US-10-755-466-2	Sequence 2, Appli
3	2916	94.4	545	10	US-09-374-046A-26	Sequence 26, Appl
4	2916	94.4	545	15	US-10-616-263-26	Sequence 26, Appl
5	2187	70.8	530	14	US-10-205-219-121	Sequence 121, App
6	1744.5	56.5	596	16	US-10-425-115-325471	Sequence 325471,
7	1744	56.5	617	16	US-10-437-963-141888	Sequence 141888,
8	1738.5	56.3	594	16	US-10-767-701-44284	Sequence 44284, A
9	1736	56.2	595	16	US-10-425-115-325582	Sequence 325582,
10	1716	55.6	596	16	US-10-437-963-116913	Sequence 116913,
11	1712	55.4	595	16	US-10-739-930-9909	Sequence 9909, Ap
12	1636.5	53.0	576	15	US-10-425-114-66140	Sequence 66140, A
13	1635.5	52.9	552	16	US-10-425-115-286624	Sequence 286624,
14	1430.5	46.3	500	16	US-10-425-115-206340	Sequence 206340,
15	1313	42.5	424	16	US-10-437-963-103141	Sequence 103141,
16	1153.5	37.3	592	15	US-10-424-599-174369	Sequence 174369,
17	1143	37.0	692	16	US-10-425-115-202293	Sequence 202293,
18	1142	37.0	627	15	US-10-425-114-42573	Sequence 42573, A
19	1129	36.5	623	15	US-10-425-114-62405	Sequence 62405, A
20	1128	36.5	624	15	US-10-425-114-45661	Sequence 45661, A
21	1128	36.5	647	15	US-10-424-599-204944	Sequence 204944,
22	1126.5	36.5	595	16	US-10-767-701-45514	Sequence 45514, A
23	1125.5	36.4	589	16	US-10-425-115-359244	Sequence 359244,
24	1115	36.1	594	16	US-10-739-930-11084	Sequence 11084, A
25	1115	36.1	645	16	US-10-739-930-11074	Sequence 11074, A
26	1099	35.6	627	16	US-10-437-963-120941	Sequence 120941,
27	1037	33.6	893	16	US-10-437-963-177000	Sequence 177000,
28	1022	33.1	820	16	US-10-437-963-165390	Sequence 165390,
29	983.5	31.8	341	15	US-10-424-599-246293	Sequence 246293,
30	950.5	30.8	625	14	US-10-394-136-54	Sequence 54, Appl
31	950.5	30.8	642	14	US-10-201-964-1	Sequence 1, Appli
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33	944	30.6	606	14	US-10-050-704-108	Sequence 108, App
34	944	30.6	606	16	US-10-798-512-108	Sequence 108, App
35	923	29.9	606	17	US-10-482-029-58	Sequence 58, Appl
36	917.5	29.7	559	16	US-10-739-930-10304	Sequence 10304, A
37	898.5	29.1	642	16	US-10-437-963-150528	Sequence 150528,
38	897	29.0	637	15	US-10-424-599-218357	Sequence 218357,
39	883	28.6	639	16	US-10-425-115-193953	Sequence 193953,
40	878	28.4	637	15	US-10-424-599-197142	Sequence 197142,
41	876	28.4	639	16	US-10-425-115-194452	Sequence 194452,
42	871.5	28.2	646	16	US-10-437-963-136356	Sequence 136356,
43	870	28.2	639	16	US-10-425-115-194454	Sequence 194454,
44	867	28.1	253	16	US-10-425-115-206342	Sequence 206342,
45	861	27.9	659	16	US-10-437-963-128426	Sequence 128426,

ALIGNMENTS

RESULT 1
US-10-755-466-4
; Sequence 4, Application US/10755466
; Publication No. US20040265854A1
; GENERAL INFORMATION:
; APPLICANT: HIDAKA , Jun et al.
; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING I
; TITLE OF INVENTION: BINDING ACTIVITIES, AND THEIR USES
; FILE REFERENCE: 0020-4827P
; CURRENT APPLICATION NUMBER: US/10/755,466
; CURRENT FILING DATE: 2004-01-13
; PRIOR APPLICATION NUMBER: US/09/786,681
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 4
; LENGTH: 579
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-755-466-4

Query Match 100.0%; Score 3089; DB 16; Length 579;
Best Local Similarity 100.0%; Pred. No. 6.2e-275;
Matches 576; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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Qy         61 SHYHETLGEALQGVELEFSGLDIKFKDDVMPATYCEIDLDKEKRDAFVYAIKNHYWYQMY 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         64 SHYHETLGEALQGVELEFSGLDIKFKDDVMPATYCEIDLDKEKRDAFVYAIKNHYWYQMY 123

Qy        121 IDDLPIWGIVGEADENGEDYYLWTYKKLEIGFNGNRIVDVNLTSEGKVKLVPNTKIQMSY 180
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Db        124 IDDLPIWGIVGEADENGEDYYLWTYKKLEIGFNGNRIVDVNLTSEGKVKLVPNTKIQMSY 183

Qy        181 SVKWKKSDVKFEDRFDKYLDPSFFQHRIHWFSIFNSFMMVIFLVGLVSMILMRTLRKDYA 240
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Qy        241 RYSKEEEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVIIVAM 300
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Db        244 RYSKEEEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVIIVAM 303

Qy        301 IEDLYTERGSMLSTAIFVYAATSPVNGYFGGSLYARQGGRRWIKQMFIGAFLIPAMVCGT 360
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Qy        361 AFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCRVNAV 420
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RESULT 2
US-10-755-466-2
; Sequence 2, Application US/10755466
; Publication No. US20040265854A1
; GENERAL INFORMATION:
;  APPLICANT: HIDAKA , Jun et al.
;  TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING L
;  TITLE OF INVENTION:  BINDING ACTIVITIES, AND THEIR USES
;  FILE REFERENCE: 0020-4827P
;  CURRENT APPLICATION NUMBER: US/10/755,466
;  CURRENT FILING DATE:  2004-01-13
;  PRIOR APPLICATION NUMBER: US/09/786,681
;  PRIOR FILING DATE: 2001-04-30
;  NUMBER OF SEQ ID NOS: 7
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
;   LENGTH: 582
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-755-466-2

  Query Match             100.0%;  Score 3089;  DB 16;  Length 582;
  Best Local Similarity   100.0%;  Pred. No. 6.3e-275;
  Matches  576;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

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Qy         61 SHYHETLGEALQGVELEFSGLDIKFKDDVMPATYCEIDLDKEKRDAFVYAIKNHYWYQMY 120
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Db         67 SHYHETLGEALQGVELEFSGLDIKFKDDVMPATYCEIDLDKEKRDAFVYAIKNHYWYQMY 126

Qy        121 IDDLPIWGIVGEADENGEDYYLWTYKKLEIGFNGNRIVDVNLTSEGKVKLVPNTKIQMSY 180
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Db        127 IDDLPIWGIVGEADENGEDYYLWTYKKLEIGFNGNRIVDVNLTSEGKVKLVPNTKIQMSY 186

Qy        181 SVKWKKSDVKFEDRFDKYLDPSFFQHRIHWFSIFNSFMMVIFLVGLVSMILMRTLRKDYA 240
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Qy        241 RYSKEEEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVIIVAM 300
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RESULT 3
US-09-374-046A-26
; Sequence 26, Application US/09374046A
; Publication No. US20030096951A1
; GENERAL INFORMATION:
;  APPLICANT: Jacobs, Kenneth
;  APPLICANT: McCoy, John M.
;  APPLICANT: LaVallie, Edward R.
;  APPLICANT: Collins-Racie, Lisa A.
;  APPLICANT: Evans, Cheryl
;  APPLICANT: Merberg, David
;  APPLICANT: Treacy, Maurice
;  APPLICANT: Agostino, Michael J.
;  APPLICANT: Steininger II, Robert J.
;  APPLICANT: Spaulding, Vikki
;  APPLICANT: Wong, Gordon G.
;  APPLICANT: Clark, Hilary
;  APPLICANT: Fechtel, Kim
;  APPLICANT: Genetics Institute, Inc.
;  TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM
;  FILE REFERENCE: GI 6075-83A
;  CURRENT APPLICATION NUMBER: US/09/374,046A
;  CURRENT FILING DATE: 1999-08-13
;  NUMBER OF SEQ ID NOS: 240
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 26
;   LENGTH: 545
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-374-046A-26

  Query Match             94.4%;  Score 2916;  DB 10;  Length 545;
  Best Local Similarity   99.8%;  Pred. No. 4.7e-259;
  Matches  544;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

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Db          1 MNTVGPYHNRQETYKYFSLPFCVGSKKSISHYHETLGEALQGVELEFSGLDIKFKDDVMP 60

Qy         92 ATYCEIDLDKEKRDAFVYAIKNHYWYQMYIDDLPIWGIVGEADENGEDYYLWTYKKLEIG 151
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 ATYCEIDLDKEKRDAFVYAIKNHYWYQMYIDDLPIWGIVGEADENGEDYYLWTYKKLEIG 120

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Db        121 FNGNRIVDVNLTSEGKVKLVPNTKIQMSYSVKWKKSDVKFEDRFDKYLDPSFFQHRIHWF 180

Qy        212 SIFNSFMMVIFLVGLVSMILMRTLRKDYARYSKEEEMDDMDRDLGDEYGWKQVHGDVFRP 271
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Db        181 SIFNSFMMVIFLVGLVSMILMRTLRKDYARYSKEEEMDDMDRDLGDEYGWKQVHGDVFRP 240

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Db        241 SSHPLIFSSLIGSGCQIFAVSLIVIIVAMIEDLYTERGSMLSTAIFVYAATSPVNGYFGG 300

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Db        301 SLYARQGGRRWIKQMFIGAFLIPAMVCGTAFFINFIAIYYHASRAIPFGTMVAVCCICFF 360

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Qy        572 NVKID 576

Db        541 NVKID 545
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RESULT 4
US-10-616-263-26
; Sequence 26, Application US/10616263
; Publication No. US20040038276A1
; GENERAL INFORMATION:
; APPLICANT: Jacobs, Kenneth
; APPLICANT: McCoy, John M.
; APPLICANT: LaVallie, Edward R.
; APPLICANT: Collins-Racie, Lisa A.
; APPLICANT: Evans, Cheryl
; APPLICANT: Merberg, David
; APPLICANT: Treacy, Maurice
; APPLICANT: Agostino, Michael J.
; APPLICANT: Steininger II, Robert J.
; APPLICANT: Spaulding, Vikki
; APPLICANT: Wong, Gordon G.
; APPLICANT: Clark, Hilary
; APPLICANT: Fechtel, Kim
; APPLICANT: Genetics Institute, Inc.
; TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM
; FILE REFERENCE: 00766.000103.5
; CURRENT APPLICATION NUMBER: US/10/616,263
; CURRENT FILING DATE: 2003-07-08
; NUMBER OF SEQ ID NOS: 240
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 26
; LENGTH: 545
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-616-263-26

Query Match 94.4%; Score 2916; DB 15; Length 545;
Best Local Similarity 99.8%; Pred. No. 4.7e-259;
Matches 544; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Qy         32 MNTVGPYHNRQETYKYFSLPFCVGSKKSISHYHETLGEALQGVELEFSGLDIKFKDDVMP 91

Db          1 MNTVGPYHNRQETYKYFSLPFCVGSKKSISHYHETLGEALQGVELEFSGLDIKFKDDVMP 60

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Qy        152 FNGNRIVDVNLTSEGKVKLVPNTKIQMSYSVKWKKSDVKFEDRFDKYLDPSFFQHRIHWF 211

Db        121 FNGNRIVDVNLTSEGKVKLVPNTKIQMSYSVKWKKSDVKFEDRFDKYLDPSFFQHRIHWF 180

Qy        212 SIFNSFMMVIFLVGLVSMILMRTLRKDYARYSKEEEMDDMDRDLGDEYGWKQVHGDVFRP 271

Db        181 SIFNSFMMVIFLVGLVSMILMRTLRKDYARYSKEEEMDDMDRDLGDEYGWKQVHGDVFRP 240

Qy        272 SSHPLIFSSLIGSGCQIFAVSLIVIIVAMIEDLYTERGSMLSTAIFVYAATSPVNGYFGG 331

Db        241 SSHPLIFSSLIGSGCQIFAVSLIVIIVAMIEDLYTERGSMLSTAIFVYAATSPVNGYFGG 300

Qy        332 SLYARQGGRRWIKQMFIGAFLIPAMVCGTAFFINFIAIYYHASRAIPFGTMVAVCCICFF 391

Db        301 SLYARQGGRRWIKQMFIGAFLIPAMVCGTAFFINFIAIYYHASRAIPFGTMVAVCCICFF 360

Qy        392 VILPLNLVGTILGRNLSGQPNFPCRVNAVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIE 451

Db        361 VILPLNLVGTILGRNLSGQPNFPCRVNAVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIE 420

Qy        452 MYFIFTSFWAYKIYYVYGFMMLVLVILCIVTVCVTIVCTYFLLNAEDYRWQWTSFLSAAS 511

Db        421 MYFIFTSFWAYKIYYVYGFMMLVLVILCIVTVCVTIVCTYFLLNAEDYPWQWTSFLSAAS 480

Qy        512 TAIYVYMYSFYYYFFKTKMYGLFQTSFYFGYMAVFSTALGIMCGAIGYMGTSAFVRKIYT 571

Db        481 TAIYVYMYSFYYYFFKTKMYGLFQTSFYFGYMAVFSTALGIMCGAIGYMGTSAFVRKIYT 540

Qy        572 NVKID 576

Db        541 NVKID 545
```

RESULT 5
US-10-205-219-121
; Sequence 121, Application US/10205219
; Publication No. US20030138803A1
; GENERAL INFORMATION:
; APPLICANT: Warner-Lambert Company
; APPLICANT: Lee, Kevin
; APPLICANT: Dixon, Alistair
; APPLICANT: Brooksbank, Robert
; APPLICANT: Pinnock, Robert
; TITLE OF INVENTION: Identification and Use of Molecules Implicated in Pain
; FILE REFERENCE: WL-A-018200
; CURRENT APPLICATION NUMBER: US/10/205,219
; CURRENT FILING DATE: 2002-07-24
; PRIOR APPLICATION NUMBER: GB 0118354.0
; PRIOR FILING DATE: 2001-07-27
; NUMBER OF SEQ ID NOS: 197
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 121
; LENGTH: 530
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: EP70-P-iso
US-10-205-219-121

Query Match 70.8%; Score 2187; DB 14; Length 530;
Best Local Similarity 80.9%; Pred. No. 5e-192;
Matches 436; Conservative 12; Mismatches 51; Indels 40; Gaps 7;

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Qy          1 AALWLLLLLLPRTRADEHEHTYQDKEEVVLWMNTVGPYHNRQETYKYFSLPFCVGSKKSI 60

Db         13 AALWLLLLLLPRTRADEHEHTYQDKEEVVLWMNTVGPYHNRQETYKYFSLPFCVGSKKSI 72

Qy         61 SHYHETLGEALQGVELEFSGLDIKFKDDVMPATYCEIDLDKEKRDAFVYAIKNHYWYQMY 120

Db         73 SHYHETLGEALQGVELEFSGLDIKFKDDVMPATYCEIDLDKEKRDAFVYAIKNHYWYQMY 132

Qy        121 IDDLPIWGIVGEADENGEDYYLWTYKKLEIGFNGNRIVDVNLTSEGKVKL---VPNTKIQ 177

Db        133 IDDLPIWGIVGEADENGEDYYLWTYKKLEIGFNGNRIVDVNLTSEGKVKLGSKYYNPDVI 192
```

```
Qy        178 MSYSVKWKKSDVKFEDRFDKYLDPSFFQHRIHWFSIFNSFMMVIFLVGLVSMILMRTLRK 237
              |   | :||||||||||| |    | ||||||||||||||||||||||||||||||||||
Db        193 FS---KMEKSDVKFEDRFDNIL-IVLFSHRIHWFSIFNSFMMVIFLVGLVSMILMRTLRK 248

Qy        238 DYARYSKEEEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVII 297
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        249 DYARYSKEEEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVII 308

Qy        298 VAMIEDLYTERGSMLSTAIFVYAATSPVNGYFGGSLYARQGGRRWIKQMFIGAFLIPAMV 357
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        309 VAMIEDLYTERGSMLSTAIFVYAATSPVNGYFGGSLYARQGGRRWIKQMFIGAFLIPAM- 367

Qy        358 CGTAFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCRV 417
                  :: :   :| |  :|          ||      |  | :|       :  |
Db        368 -----GVHCLLHQFH-SHLLP----------CFKSHSFWNNGGRLLHLFFCYSSSKSCWY 411

Qy        418 NAVPRPIPE---------------KKWFMEPAVIVCLGGILPFGSIFIEMYFIFTSFWA 461
              |  |: :                :|     ||||||||||||||||||||||||||
Db        412 NTWPKSVRSAQLSLSCQCCASSYTGEKMVHGAAVIVCLGGILPFGSIFIEMYFIFTSFWA 471

Qy        462 YKIYYVYGFMMLVLVILCIVTVCVTIVCTYFLLNAEDYRWQWTSFLSAASTAIYVYMYS 520
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        472 YKIYYVYGFMMLVLVILCIVTVCVTIVCTYFLLNAEDYRWQWTSFLSAASTAIYVYMYS 530
```

RESULT 6
US-10-425-115-325471
; Sequence 325471, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 325471
; LENGTH: 596
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_598C.1.pep
US-10-425-115-325471

Query Match 56.5%; Score 1744.5; DB 16; Length 596;
Best Local Similarity 56.5%; Pred. No. 2.9e-151;
Matches 324; Conservative 96; Mismatches 150; Indels 3; Gaps 3;

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Qy          6 LLLLLPRTRADEHEHTYQDKEEVVLWMNTVGPYHNRQETYKYFSLPFCVGSKKSISHYHE 65
              |  ||    | | :| |: :| | ||:| ||||:| |||| |:|||||  |:   :|
Db         25 LAALLALASASESDHKYKTEEPVKLWVNKVGPYNNPQETYNYYSLPFCQPSENP-THKWG 83

Qy         66 TLGEALQGVELEFSGLDIKFKDDVMPATYCEIDLDKEKRDAFVYAIKNHYWYQMYIDDLP 125
               ||| | | ||  | |:|||  :|     | ::|| :|   |  ||:: ||:: :|||||
Db         84 GLGEVLGGNELIDSQLEIKFLKNVEKGFICTLELDAKKVQQFADAIESSYWFEFFIDDLP 143

Qy        126 IWGIVGEADENGED-YYLWTYKKLEIGFNGNRIVDVNLTSEGKVKLVPNTKIQMSYSVKW 184
              :|| |||:|:| |: :||:|:| : : :| |||: |||| |    |    |::|:|||||
Db        144 LWGFVGESDKNSENKHYLYTHKNILVKYNDNRIIHVNLTQESPKLLEDGKKLEMTYSVKW 203

Qy        185 KKSDVKFEDRFDKYLDPSFFQHRIHWFSIFNSFMMVIFLVGLVSMILMRTLRKDYARYSK 244
                :|| |  ||: |||  ||:|:|||||||||||||||| ||||||||||| |||:|::
Db        204 VATDVSFARRFEVYLDYPFFEHQIHWFSIFNSFMMVIFLTGLVSMILMRTLRNDYAKYAR 263

Qy        245 E-EEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVIIVAMIED 303
              | :::: ::||: :| ||| ||||||||    :  |:|:| | |: |: |:|::|::|::
Db        264 EDDDLESLERDVNEESGWKLVHGDVFRPPRSLMFLSALVGIGTQLAALILLVIVLAIVGM 323

Qy        304 LYTERGSMLSTAIFVYAATSPVNGYFGGSLYARQGGRRWIKQMFIGAFLIPAMVCGTAFF 363
              || ||:::: | |  || || ::||  | ||:| ||: ||| | : | | | :     |
Db        324 LYIGRGAIITTFIVCYALTSFISGYVSGGLYSRSGGKNWIKAMVLTASLFPFLCFSIGFM 383

Qy        364 INFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCRVNAVPRP 423
              :| |||:| :  |||||||| :  :  |:  || |:||::||| || || ||||  :|||
Db        384 LNTIAIFYRSLAAIPFGTMVVMFVLWAFISFPLVLLGTVVGRNWSGAPNNPCRVKTIPRP 443

Qy        424 IPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIFTSFWAYKIYYVYGFMMLVLVILCIVTV 483
              ||||||:: |:||  :||:|||||||||||:||||| ||:|||||||:|| ||| |||:
Db        444 IPEKKWYLTPSVISLMGGLLPFGSIFIEMYFVFTSFWNYKVYYVYGFMLLVFVILLIVTI 503

Qy        484 CVTIVCTYFLLNAEDYRWQWTSFLSAASTAIYVYMYSFYYYFFKTKMYGLFQTSFYFGYM 543
              ||||| ||||||||:| ||||||  ||||||:|||:|| |||  |||| | |||||||||
Db        504 CVTIVGTYFLLNAENYHWQWTSFSSAASTALYVYLYSIYYYHVKTKMSGFFQTSFYFGYT 563

Qy        544 AVFSTALGIMCGAIGYMGTSAFVRKIYTNVKID 576
              :|   |||:||||||:|:: |||:|| |:| |
Db        564 LMFCLGLGILCGAIGYLGSTLFVRRIYRNIKCD 596

RESULT 7
US-10-437-963-141888
; Sequence 141888, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 141888
; LENGTH: 617
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_42949C.1.pep
US-10-437-963-141888

Query Match 56.5%; Score 1744; DB 16; Length 617;
Best Local Similarity 53.9%; Pred. No. 3.4e-151;
Matches 326; Conservative 99; Mismatches 150; Indels 30; Gaps 4;

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Qy   1 AALWLLLLLLPRTRADEHEHTYQDKEEVVLWMNTVGPYHNRQETYKYFSLPFCVGSKKSI 60
              ||: |:: | | | : :| || :|:|:||:| ||||:| |||| |:||||| | :
Db   14 AAVLLVVFLAPLAAASDSDHKYQSEEKVMLWVNKVGPYNNPQETYNYYSLPFCHPSNNPV 73

Qy   61 SHYHETLGEALQGVELEFSGLDIKFKDDVMPATYCEIDLDKEKRDAFVYAIKNHYWYQMY 120
               | ||| | | || | :||| || | | |:|| :| ||:: ||:: :
Db   74 -HKWGGLGEVLGGNELIDSQIDIKFGRDVDKGTICSIELDPDKAKQLSDAIESSYWFEFF 132

Qy   121 IDDLPIWGIVGEADENGED-YYLWTYKKLEIGFNGNRIVDVNLTSEGKVKLVPNTKIQMS 179
              |||||:|| ||||| | :: |:|:|:| : | :|||:|: |||| | :   : |:
Db   133 IDDLPLWGFVGEADRNSDNKYFLFTHKNIVIRYNGNQIIHVNLTQESPKLIDAGKALDMT 192

Qy   180 YSVKWKKSDVKFEDRFDKYLDPSFFQHRIHWFSIFNSFMMVIFLVGLVSMILMRTLRKDY 239
              |||||: ::| | ||| ||| ||:|:|||||||||||||||| ||||||||||| ||
Db   193 YSVKWEPTNVTFAHRFDVYLDYPFFEHQIHWFSIFNSFMMVIFLTGLVSMILMRTLRNDY 252

Qy   240 ARYSK-EEEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVIIV 298
              |:|:: ::::: ::||: :| ||| |||||||| : |:|:| | |: |: |:|::::
Db   253 AKYARDDDDLETLERDVSEESGWKLVHGDVFRPPRSLALLSALVGGGTQLSALILLVILL 312

Qy   299 AMIEDLYTERGSMLSTAIFVYAATSPVNGYFGGSLYARQGGRRWIKQMFIGAFLIPAMVC 358
              |:| || ||:::: | | || || ::|| |:||:| ||: ||| | : | | | |
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Db        313 AIIGMLYIGRGAIVTTFIVCYALTSFISGYVSGALYSRHGGKNWIKAMIMTASLFPFMCF 372

Qy        359 GTAFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCRVN 418

Db        373 GIGLVLNTIAIFYRSLAAIPFGTMVVVFILWAFISFPLALLGTVVGRNWSGAPNNPCRVK 432

Qy        419 AVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIFTSFWAYKIYYVYGFMMLVLVIL 478

Db        433 TIPRPIPEKKWYLTPSVIALMGGLLPFGSIFIEMYFVFTSFWNYKVYYVYGFMLLVFLIL 492

Qy        479 CIVTVCVTIVCTYFLLNAEDYRWQWTSFLSAASTAIYVYMYSFYYYFFKTKMYGLFQTSF 538

Db        493 IIVTICVTIVGTYFLLNAENYHWQWTSFFSAASTAVYVYLYSVYYYHVKTKMSGFFQTSF 552

Qy        539 YFGYMAVFSTALGIMC--------------------------GAIGYMGTSAFVRKIYT 571

Db        553 YFGYTLMFCLGLGTLCGKLFYTGSMLKPKNLMVSTDTGSNFGPGAVGYLGSTLFVRRIYR 612

Qy        572 NVKID 576

Db        613 NIKCD 617


RESULT 8
US-10-767-701-44284
; Sequence 44284, Application US/10767701
; Publication No. US20040172684A1
; GENERAL INFORMATION:
;  APPLICANT: Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof For Plant Improvement
;  FILE REFERENCE: 38-21(53535)B
;  CURRENT APPLICATION NUMBER: US/10/767,701
;  CURRENT FILING DATE:  2004-01-29
;  NUMBER OF SEQ ID NOS: 63128
; SEQ ID NO 44284
;   LENGTH: 594
;   TYPE: PRT
;   ORGANISM: Sorghum bicolor
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(594)
;   OTHER INFORMATION: unsure at all Xaa locations
;   FEATURE:
;   OTHER INFORMATION: Clone ID: SORBI-28MAY03-C12526_1.pep
US-10-767-701-44284

  Query Match             56.3%;  Score 1738.5;  DB 16;  Length 594;
  Best Local Similarity   56.5%;  Pred. No. 1e-150;
  Matches  322;  Conservative   97;  Mismatches  148;  Indels    3;  Gaps    3;

Qy          9 LLPRTRADEHEHTYQDKEEVVLWMNTVGPYHNRQETYKYFSLPFCVGSKKSISHYHETLG 68

Db         26 LLALASASESDHKYKTEEPVKLWVNKVGPYNNPQETYNYYSLPFCQPSENP-THKWGGLG 84

Qy         69 EALQGVELEFSGLDIKFKDDVMPATYCEIDLDKEKRDAFVYAIKNHYWYQMYIDDLPIWG 128

Db         85 EVLGGNELIDSQLEIKFLKNVEKGSICTLELDAKKVQQFADAIESSYWFEFFIDDLPLWG 144

Qy        129 IVGEADENGED-YYLWTYKKLEIGFNGNRIVDVNLTSEGKVKLVPNTKIQMSYSVKWKKS 187

Db        145 FVGETDKNSENKHYLYTHKNILVXYNDNRIIHVNLTQESPKLLEDGKKLEMTYSVKWVAT 204

Qy        188 DVKFEDRFDKYLDPSFFQHRIHWFSIFNSFMMVIFLVGLVSMILMRTLRKDYARYSKE-E 246

Db        205 DVSFARRFEVYLDYPFFEHQIHWFSIFNSFMMVIFLTGLVSMILMRTLREDYAKYAREDD 264

Qy        247 EMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVIIVAMIEDLYT 306

Db        265 DLESLERDVNEESGWKLVHGDVFRPPRSXVFLSALVGIGTQLAALSRLVIVLAIVGMLYI 324

Qy        307 ERGSMLSTAIFVYAATSPVNGYFGGSLYARQGGRRWIKQMFIGAFLIPAMVCGTAFFINF 366

Db        325 GRGAIITTFIVCYALTSFISGYVSGGLYSRNGGKNWIKAMVLTASLFPFLCFSIGFALNT 384

Qy        367 IAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCRVNAVPRPIPE 426

Db        385 IAIFYRSLAAIPFGTMVVMFVLWAFISFPLVLLGTVVGRNWSGAPNNPCRVKTIPRPIPE 444

Qy        427 KKWFMEPAVIVCLGGILPFGSIFIEMYFIFTSFWAYKIYYVYGFMMLVLVILCIVTVCVT 486

Db        445 AKWYLTPSVISLMGGLLPFGSIFIEMYFVFTSFWNYKVYYVYGFMLLVFVILLIVTICVT 504

Qy        487 IVCTYFLLNAEDYRWQWTSFLSAASTAIYVYMYSFYYYFFKTKMYGLFQTSFYFGYMAVF 546

Db        505 IVGTYFLLNAENYHWQWTSFSSAASTALYVYLYSIYYYHVKTKMSGFFQTSFYFGYTLMF 564

Qy        547 STALGIMCGAIGYMGTSAFVRKIYTNVKID 576

Db        565 CLGLGILCGAIGYLGSTLFVRRIYRNIKCD 594


RESULT 9
US-10-425-115-325582
; Sequence 325582, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(53222)B
;  CURRENT APPLICATION NUMBER: US/10/425,115
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 325582
;   LENGTH: 595
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(595)
;   OTHER INFORMATION: unsure at all Xaa locations
;   FEATURE:
;   OTHER INFORMATION: Clone ID: MRT4577_599C.1.pep
US-10-425-115-325582

  Query Match             56.2%;  Score 1736;  DB 16;  Length 595;
  Best Local Similarity   56.4%;  Pred. No. 1.8e-150;
  Matches  324;  Conservative   95;  Mismatches  151;  Indels    4;  Gaps    4;

Qy          6 LLLLLPRTRADEHEHTYQDKEEVVLWMNTVGPYHNRQETYKYFSLPFCVGSKKSISHYHE 65

Db         23 LAALLALASASESDHKYKTEEPVKLWVNKVGPYNNPQETYNYYSLPFCQPSENP-THKWG 81

Qy         66 TLGEALQGVELEFSGLDIKFKDDVMPATYCEIDLDKEKRDAFVYAIKNHYWYQMYIDDLP 125

Db         82 GLGEVLGGNELIDSQLEIKFLKNVEKGFICTLELDAKKVQQFADAIESSYWFEFFIDDLP 141

Qy        126 IWGIVGEADENGED-YYLWTYKKLEIGFNGNRIVDVNLTSEGKVKLVPNTKIQMSYSVKW 184

Db        142 LWGFVGETDKNSENKHYLYTHKNILVKYNDNRIIHVNLTQESPTLLEDGKKLEMTYSVKW 201

Qy        185 KKSDVKF-EDRFDKYLDPSFFQHRIHWFSIFNSFMMVIFLVGLVSMILMRTLRKDYARYS 243

Db        202 VATDVSFARXRFEVYLDYPFFEHQIHWFSIFNSFMMVIFLTGLVSMILMRTLRNDYAKYA 261

Qy        244 KE-EEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVIIVAMIE 302

Db        262 REDDDLESLERDVNEESGWKLVHGDVFRPPQSLMFLSALVGIGTQLAALILLVIVLAIVG 321

Qy        303 DLYTERGSMLSTAIFVYAATSPVNGYFGGSLYARQGGRRWIKQMFIGAFLIPAMVCGTAF 362
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Db        322 MLYIGRGAIITTFIVCYALTSFISGYVSGGLYSRNGGKNWIKAMVLTASLFPFLCFSIGF 381

Qy        363 FINFIAIYYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCRVNAVPR 422

Db        382 ALNTIAIFYRSLAAIPFGTMVVMFVLWAFISFPLVLLGTVVGRNWSGAPNNPCRVKTIPR 441

Qy        423 PIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIFTSFWAYKIYYVYGFMMLVLVILCIVT 482

Db        442 PIPEKKWYLTPSVISLMGGLLPFGSIFIEMYFVFTSFWNYKVYYVYGFMLLVFVILLIVT 501

Qy        483 VCVTIVCTYFLLNAEDYRWQWTSFLSAASTAIYVYMYSFYYYFFKTKMYGLFQTSFYFGY 542

Db        502 ICVTIVGTYFLLNAENYHWQWTSFSSAASTALYVYLYSIYYYHVKTKMSGFFQTSFYFGY 561

Qy        543 MAVFSTALGIMCGAIGYMGTSAFVRKIYTNVKID 576

Db        562 TLMFCLGLGILCGAIGYLGSTLFVRRIYRNIKCD 595


RESULT 10
US-10-437-963-116913
; Sequence 116913, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  APPLICANT:  Wu, Wei
;  APPLICANT:  Boukharov, Andrey A.
;  APPLICANT:  Barbazuk, Brad
;  APPLICANT:  Li, Ping
;  TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53221)B
;  CURRENT APPLICATION NUMBER: US/10/437,963
;  CURRENT FILING DATE:  2003-05-14
;  NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 116913
;   LENGTH: 596
;   TYPE: PRT
;   ORGANISM: Oryza sativa
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT4530_2036C.1.pep
US-10-437-963-116913

  Query Match            55.6%;  Score 1716;  DB 16;  Length 596;
  Best Local Similarity  56.5%;  Pred. No. 1.2e-148;
  Matches  325;  Conservative   91;  Mismatches  153;  Indels    6;  Gaps    5;

Qy          5 LLLLLLPR-TRADEHEHTYQDKEEVVLWMNTVGPYHNRQETYKYFSLPFCVGSKKSISHY 63

Db         25 LLALATPRPASASESDHKYKVEEPVKLWVNKVGPYNNPQETYNYHSLPFCQPSENP-AHK 83

Qy         64 HETLGEALQGVELEFSGLDIKFKDDVMPATYCEIDLDKEKRDAFVYAIKNHYWYQMYIDD 123

Db         84 WGGLGEVLGGNELIDSQIDIKFLRNEERGSICTLELDSKKVQQFSDAIDNSYWFEFFMDD 143

Qy        124 LPIWGIVGEADENGED-YYLWTYKKLEIGFNGNRIVDVNLTSEGKVKLVPNTKIQMSYSV 182

Db        144 L--WGFVGETDKNNENKRYLYTHKSILVKYNDNRIIHVNLTQESPKLLEAGKKLDMTYSV 201

Qy        183 KWKKSDVKFEDRFDKYLDPSFFQHRIHWFSIFNSFMMVIFLVGLVSMILMRTLRKDYARY 242

Db        202 KWLQTDVTFARRFEVYLDYPFFEHQIHWFSIFNSFMMVIFLTGLVSMILMRTLRNDYAKY 261

Qy        243 SKE-EEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVIIVAMI 301

Db        262 AREDDDLESLERDVNEESGWKLVHGDVFRPPRSLAFLSAVVGIGTQLAALILLVIVLAIV 321

Qy        302 EDLYTERGSMLSTAIFVYAATSPVNGYFGGSLYARQGGRRWIKQMFIGAFLIPAMVCGTA 361

Db        322 GMLYVGRGSIITTFIVCYALTSFISGYVSGGLYSRNGGKNWIKAMILTASLFPFLCFAIG 381

Qy        362 FFINFIAIYYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCRVNAVP 421

Db        382 FVLNTIAIFYRSLAAIPFGTMVVMFVLWAFISFPLVLLGTVVGRNWSGAPNNPCRVKTIP 441

Qy        422 RPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIFTSFWAYKIYYVYGFMMLVLVILCIV 481

Db        442 RPIPEKKWYLTPSVISLMGGLLPFGSIFIEMYFVFTSFWNYKVYYVYGFMLLVFVILLIV 501

Qy        482 TVCVTIVCTYFLLNAEDYRWQWTSFLSAASTAIYVYMYSFYYYFFKTKMYGLFQTSFYFG 541

Db        502 TICVTIVGTYFLLNAENYHWQWTSFLSAASTALYVYLYSIYYYHVKTKMSGFFQTSFYFG 561

Qy        542 YMAVFSTALGIMCGAIGYMGTSAFVRKIYTNVKID 576

Db        562 YTLMFCLGLGILCGAIGYLGSTLFVRRIYRNIKCD 596


RESULT 11
US-10-739-930-9909
; Sequence 9909, Application US/10739930
; Publication No. US20040216190A1
; GENERAL INFORMATION:
;  APPLICANT: Kovalic, David K.
;  TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
;  TITLE OF INVENTION:  PLANTS AND USES THEREOF FOR PLANT IMPROVEMENT
;  FILE REFERENCE: 38-21(53377)B
;  CURRENT APPLICATION NUMBER: US/10/739,930
;  CURRENT FILING DATE:  2003-12-18
;  NUMBER OF SEQ ID NOS: 11088
; SEQ ID NO 9909
;   LENGTH: 595
;   TYPE: PRT
;   ORGANISM: Triticum aestivum
;   FEATURE:
;   OTHER INFORMATION: Clone ID: TRIAE-23APR03-C2111_1.p
US-10-739-930-9909

  Query Match            55.4%;  Score 1712;  DB 16;  Length 595;
  Best Local Similarity  55.0%;  Pred. No. 2.9e-148;
  Matches  321;  Conservative   96;  Mismatches  155;  Indels   12;  Gaps    4;

Qy          4 WLLLLLLP---------RTRADEHEHTYQDKEEVVLWMNTVGPYHNRQETYKYFSLPFCV 54

Db         13 FVLLLSLTAVLAFASPLRASASESDHKYKAGDSVKLWVNKVGPYNNPQETYNYHSLPFCQ 72

Qy         55 GSKKSISHYHETLGEALQGVELEFSGLDIKFKDDVMPATYCEIDLDKEKRDAFVYAIKNH 114

Db         73 PSENP-GHKWGGLGEVLGGNELIDSQLDIKFLRNVERGSICTLELDPKKTQQFADAIESS 131

Qy        115 YWYQMYIDDLPIWGIVGEADENGED-YYLWTYKKLEIGFNGNRIVDVNLTSEGKVKLVPN 173

Db        132 YWFEPFIDDLPLWGFVGETDKNSENKHYLYTHKNILVKYNDNRIIHVNLTQESPKLLDAG 191

Qy        174 TKIQMSYSVKWKKSDVKFEDRFDKYLDPSFFQHRIHWFSIFNSFMMVIFLVGLVSMILMR 233

Db        192 KNLDMTYSAKWVPTDVSFARRFEVYLDYPFFEHQIHWFSIFNSFMMVIFLTGLVSMILMR 251

Qy        234 TLRKDYARYSK-EEEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVS 292

Db        252 TLRNDYAKYARDDDDLESLERDVNEESGWKLVHGDVFRPPRSLTLLSALVGIGTQLAALI 311

Qy        293 LIVIIVAMIEDLYTERGSMLSTAIFVYAATSPVNGYFGGSLYARQGGRRWIKQMFIGAFL 352

Db        312 LLVIVLAIVGMLYVGRGAIITTFIVCYALTSFISGYVSAGLYSRNGGKNWIKAMILTASL 371

Qy        353 IPAMVCGTAFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPN 412

Db        372 FPFLHFAIGFALNTIAIFYGSLAAIPFGTMVVIFVLWAFISFPLVLLGTVVGRNWSGAPN 431

Qy        413 FPCRVNAVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIFTSFWAYKIYYVYGFMM 472
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Db        432 NPCRVKTIPRPIPERKWYLTPSVISLMGGLLPFGSIFIEMYFVFTSFWNYKVYYVYGFML 491

Qy        473 LVLVILCIVTVCVTIVCTYFLLNAEDYRWQWTSFLSAASTAIYVYMYSFYYYFFKTKMYG 532

Db        492 LVFVILLIVTICVTIVGTYFLLNAENYHWQWTSFFSAASTALYVYLYSIYYYHVKTKMSG 551

Qy        533 LFQTSFYFGYMAVFSTALGIMCGAIGYMGTSAFVRKIYTNVKID 576

Db        552 FFQTSFYFGYTLMFCLGLGILCGAIGYVGSTLFVRRIYRNIKCD 595


RESULT 12
US-10-425-114-66140
; Sequence 66140, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
;  APPLICANT: Liu, Jingdong
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Screen, Steven E
;  APPLICANT:  Tabaska, Jack E
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53313)B
;  CURRENT APPLICATION NUMBER: US/10/425,114
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 66140
;   LENGTH: 576
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   OTHER INFORMATION: Clone ID: LIB4573-008-E4_FLI.pep
US-10-425-114-66140

  Query Match             53.0%;  Score 1636.5;  DB 15;  Length 576;
  Best Local Similarity   53.1%;  Pred. No. 2.4e-141;
  Matches  307;  Conservative   92;  Mismatches  142;  Indels   37;  Gaps    3;

Qy          1 AALWLLLLLLPRTRADEHEHTYQDKEEVVLWMNTVGPYHNRQETYKYFSLPFCVGSKKSI 60

Db         34 AAILIAVAHSPLAYASEAEHKYKTEEPVKLWVNKV------------------------- 68

Qy         61 SHYHETLGEALQGVELEFSGLDIKFKDDVMPATYCEIDLDKEKRDAFVYAIKNHYWYQMY 120

Db         69 ----------LGGNELIDSQIDIKFIKNVDKGAICTIELDVQKVQQFANAIENSYWFELF 118

Qy        121 IDDLPIWGIVGEADENGE-DYYLWTYKKLEIGFNGNRIVDVNLTSEGKVKLVPNTKIQMS 179

Db        119 IDDLPLWGFVGETDKNNEKKHYLYTHKNIVVKYNGNRIIHVNLTQESPKLLEAGKKLDMT 178

Qy        180 YSVKWKKSDVKFEDRFDKYLDPSFFQHRIHWFSIFNSFMMVIFLVGLVSMILMRTLRKDY 239

Db        179 YSVKWVQTNVAFARRFEVYLDYPFFEHQIHWFSIFNSFMMVIFLTGLVSMILMRTLRNDY 238

Qy        240 ARYSKE-EEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVIIV 298

Db        239 AKYAREDDDLESLERDVNEESGWKLVHGDVFRPPRGQVFLSALVGIGTQLAALILLVIVL 298

Qy        299 AMIEDLYTERGSMLSTAIFVYAATSPVNGYFGGSLYARQGGRRWIKQMFIGAFLIPAMVC 358

Db        299 AIVVMLYVGRGAIITTFIVCYALTSFISGYVSGGLYSRNGGKNWIKAMILTASLFPFLCF 358

Qy        359 GTAFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCRVN 418

Db        359 SIGLLLNTIAIFYRSLAAIPFGTMVVMFILWAFISFPLVLLGTVVGRNWSGAPNNPCRVK 418

Qy        419 AVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIFTSFWAYKIYYVYGFMMLVLVIL 478

Db        419 TIPRPIPEKKWYLTPSVISLMGGLLPFGSIFIEMYFVFTSFWNYKVYYVYGFMLLVFVIL 478

Qy        479 CIVTVCVTIVCTYFLLNAEDYRWQWTSFLSAASTAIYVYMYSFYYYFFKTKMYGLFQTSF 538

Db        479 IIVTVCVTIVGTYFLLNAENYHWQWTSFFSAASTALYVYLYSIYYYHVKTKMSGFFQTSF 538

Qy        539 YFGYMAVFSTALGIMCGAIGYMGTSAFVRKIYTNVKID 576

Db        539 YFGYTLMFCLGLGILCGAVGYLGSTLFVRRIYRNIKCD 576


RESULT 13
US-10-425-115-286624
; Sequence 286624, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(53222)B
;  CURRENT APPLICATION NUMBER: US/10/425,115
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 286624
;   LENGTH: 552
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   OTHER INFORMATION: Clone ID: MRT4577_24498C.1.pep
US-10-425-115-286624

  Query Match             52.9%;  Score 1635.5;  DB 16;  Length 552;
  Best Local Similarity   52.9%;  Pred. No. 2.8e-141;
  Matches  306;  Conservative   93;  Mismatches  142;  Indels   37;  Gaps    3;

Qy          1 AALWLLLLLLPRTRADEHEHTYQDKEEVVLWMNTVGPYHNRQETYKYFSLPFCVGSKKSI 60

Db         10 AAILIAVAHSPLAYASEAEHKYKTEEPVKLWVNKV------------------------- 44

Qy         61 SHYHETLGEALQGVELEFSGLDIKFKDDVMPATYCEIDLDKEKRDAFVYAIKNHYWYQMY 120

Db         45 ----------LGGNELIDSQIDIKFIKNVDKGAICTIELDVQKVQQFANAIENSYWFELF 94

Qy        121 IDDLPIWGIVGEADENGE-DYYLWTYKKLEIGFNGNRIVDVNLTSEGKVKLVPNTKIQMS 179

Db         95 IDDLPLWGFVGETDKNNEKKHYLYTHKNIVVKYNGNRIIHVNLTQESPKLLEAGKKLDMT 154

Qy        180 YSVKWKKSDVKFEDRFDKYLDPSFFQHRIHWFSIFNSFMMVIFLVGLVSMILMRTLRKDY 239

Db        155 YSVKWVQTNVAFARRFEVYLDYPFFEHQIHWFSIFNSFMMVIFLTGLVSMILMRTLRNDY 214

Qy        240 ARYSKE-EEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVIIV 298

Db        215 AKYAREDDDLESLERDVNEESGWKLVHGDVFRPPRGQVFLSALVGIGTQLAALILLVIVL 274

Qy        299 AMIEDLYTERGSMLSTAIFVYAATSPVNGYFGGSLYARQGGRRWIKQMFIGAFLIPAMVC 358

Db        275 AIVVMLYVGRGAIITTFIVCYALTSFISGYVSGGLYSRNGGKNWIKAMILTASLFPFLCF 334

Qy        359 GTAFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCRVN 418

Db        335 SIGLLLNTIAIFYRSLAAIPFGTMVVMFILWAFISFPLVLLGTVVGRNWSGAPNNPCRVK 394

Qy        419 AVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIFTSFWAYKIYYVYGFMMLVLVIL 478

Db        395 TIPRPIPEKKWYLTPSVISLMGGLLPFGSIFIEMYFVFTSFWNYKVYYVYGFMLLVFVIL 454

Qy        479 CIVTVCVTIVCTYFLLNAEDYRWQWTSFLSAASTAIYVYMYSFYYYFFKTKMYGLFQTSF 538

Db        455 IIVTICVTIVGTYFLLNAENYHWQWTSFFSAASTALYVYLYSIYYYHVKTKMSGFFQTSF 514

Qy        539 YFGYMAVFSTALGIMCGAIGYMGTSAFVRKIYTNVKID 576

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Db        515 YFGYTLMFCLGLGILCGAVGYLGSTLFVRRIYRNIKCD 552


RESULT 14
US-10-425-115-206340
; Sequence 206340, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(53222)B
;  CURRENT APPLICATION NUMBER: US/10/425,115
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 206340
;   LENGTH: 500
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(500)
;   OTHER INFORMATION: unsure at all Xaa locations
;   FEATURE:
;   OTHER INFORMATION: Clone ID: MRT4577_119765C.1.pep
US-10-425-115-206340

  Query Match             46.3%;  Score 1430.5;  DB 16;  Length 500;
  Best Local Similarity   54.9%;  Pred. No. 1.8e-122;
  Matches  269;  Conservative   88;  Mismatches  126;  Indels    7;  Gaps    4;

Qy          6 LLLLLPRTRADEHEHTYQDKEEVVLWMNTVGPYHNRQETYKYFSLPFCVGSKKSISHYHE 65
              ||:|:| | | : :| ||  | | ||:| ||||:| |||| |:|||||  |:   :| |:
Db         14 LLILVPLTAASDSDHKYQAAEPVTLWVNKVGPYNNPQETYNYYSLPFCHASE---NHVHK 70

Qy         66 --TLGEALQGVELEFSGLDIKFKDDVMPATYCEIDLDKEKRDAFVYAIKNHYWYQMYIDD 123
                ||| | | ||  | :|||  :|  || | :|||  |      ||:| ||:: :|||
Db         71 WGGLGEVLGGNELIDSQIDIKFGKNVDKATICSLDLDLVKAKQLSDAIENSYWFEFFIDD 130

Qy        124 LPIWGIVGEADENGED-YYLWTYKKLEIGFNGNRIVDVNLTSEGKVKLVPNTKIQMSYSV 182
              ||:|| ||||| | :: |:|:|:| : | :|||:|: |||| |    :  |  : |:|||
Db        131 LPLWGFVGEADRNNDNKYFLFTHKNIVIRYNGNQIIHVNLTQESPKLIDVNKALDMTYSV 190

Qy        183 KWKKSDVKFEDRFDKYLDPSFFQHRIHWFSIFNSFMMVIFLVGLVSMILMRTLRKDYARY 242
              ||: ::: |  ||| |||  ||:|:|||||||||||||||| ||||||||||| |||:|
Db        191 KWEPTNITFAHRFDVYLDYPFFEHQIHWFSIFNSFMMVIFLTGLVSMILMRTLRNDYAKY 250

Qy        243 SK-EEEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVIIVAMI 301
              :: ::::: ::||: :| ||| |||||||||  : :: |:|:| | |: |: |:||::|:|
Db        251 ARDDDDIETLERDVNEESGWKLVHGDVFRPPCNLVLLSALVGIGTQLAALILLVILLAII 310

Qy        302 EDLYTERGSMLSTAIFVYAATSPVNGYFGGSLYARQGGRRWIKQMFIGAFLIPAMVCGTA 361
                ||  ||:::| |  || || ::||  |:||:| ||: ||| | : | | | |  |
Db        311 GMLYIGRGAIVTTFIVCYALTSFISGYVSGALYSRHGGKNWIKAMAMTASLFPFMCFGIG 370

Qy        362 FFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCRVNAVP 421
              :| |||:| :  |||||||| |  :  |:  || |:||::||| || || ||||  :|
Db        371 LVLNTIAIFYGSLAAIPFGTMVVVFILWAFISFPLALLGTVVGRNWSGAPNNPCRVKTIP 430

Qy        422 RPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIFTSFWAYKIYYVYGFMMLVLVILCIV 481
              ||||||||:: |:||  :||:|||||||||||||:||||| ||:||||||:|| :|| ||
Db        431 RPIPEKKWYLTPSVIALMGGLLPFGSIFIEMYFVFTSFWNYKVYYVYGFMLLVFLILIIV 490

Qy        482 TVCVTIVCTY 491
               :|||||  ||
Db        491 XICVTIVGTY 500


RESULT 15
US-10-437-963-103141
; Sequence 103141, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  APPLICANT:  Wu, Wei
;  APPLICANT:  Boukharov, Andrey A.
;  APPLICANT:  Barbazuk, Brad
;  APPLICANT:  Li, Ping
;  TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53221)B
;  CURRENT APPLICATION NUMBER: US/10/437,963
;  CURRENT FILING DATE:  2003-05-14
;  NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 103141
;   LENGTH: 424
;   TYPE: PRT
;   ORGANISM: Oryza sativa
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(424)
;   OTHER INFORMATION: unsure at all Xaa locations
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT4530_1005C.1.pep
US-10-437-963-103141

  Query Match             42.5%;  Score 1313;  DB 16;  Length 424;
  Best Local Similarity   57.7%;  Pred. No. 9e-112;
  Matches  240;  Conservative   69;  Mismatches  105;  Indels    2;  Gaps    2;

Qy        162 LTSEGKVKLVPNTKIQMSYSVKWKKSDVKFEDRFDKYLDPSFFQHRIHWFSIFNSFMMVI 221
              :: :    |    |: |:|||||| :::| |  ||: |||  ||:|:|||||||||||||
Db         10 ISQKSPTHLEAGKKLDMTYSVKWVQTNVAFARRFEVYLDYPFFEHQIHWFSIFNSFMMVI 69

Qy        222 FLVGLVSMILMRTLRKDYARYSKE-EEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSS 280
              || |||||||||||| |||:|::| :::: ::||: :| ||| ||||||||    :  |:
Db         70 FLTGLVSMILMRTLRNDYAKYAREDDDLESLERDVSEESGWKLVHGDVFRPPRSLVFLSA 129

Qy        281 LIGSGCQIFAVSLIVIIVAMIEDLYTERGSMLSTAIFVYAATSPVNGYFGGSLYARQGGR 340
               :| | |: |: |:||::|::  ||  ||:::: | |  || || ::||  | ||:| ||:
Db        130 FVGIGTQLAALILLVIVLAIVGMLYVGRGAIITTFIVCYALTSFISGYVSGGLYSRNGGK 189

Qy        341 RWIKQMFIGAFLIPAMVCGTAFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVG 400
              |||  :  | | |  :        :| |||:| :  |||||||| :  :  |:  || :|
Db        190 NWIKSMILTASLFPFLCFSIGLVLNTIAIFYRSLAAIPFGTMVVIFVLWAFISFPLVLLG 249

Qy        401 TILGRNLSGQPNFPCRVNAVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIFTSFW 460
              |::||| || || ||||  :|||||||||:: |:||  :||:|||||||||||:|||||
Db        250 TVVGRNWSGAPNNPCRVKTIPRPIPEKKWYLTPSVISLMGGLLPFGSIFIEMYFVFTSFW 309

Qy        461 AYKIYYVYGFMMLVLVILCIVTVCVTIVCTYFLLNAEDYRWQWTSFLSAASTAIYVYMYS 520
              ||:|||||||:|| ||| |||:|||||  ||||||||:| ||||||  ||||||:|||:||
Db        310 NYKVYYVYGFMLLVFVILIIVTICVTIVGTYFLLNAENYHWQWTSFFSAASTALYVYLYS 369

Qy        521 FYYYFFKTKMYGLFQTSFYFGYMAVFSTALGIMCGAIGYMGTSAFVRKIYTNVKID 576
              |||  |||| | |||||||||  :|   |||:|| :    |  |||:|| |:| |
Db        370 IYYYHVKTKMSGFFQTSFYFGYTLMFCLGLGILCGTVETXST-LFVRRIYRNIKCD 424


Search completed: August  9, 2005, 13:49:21
Job time : 126.847 secs
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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: August 9, 2005, 13:09:36 ; Search time 23.8345 Seconds
(without alignments)
1804.019 Million cell updates/sec

Title: US-09-319-724B-14
Perfect score: 3089
Sequence: 1 AALWLLLLLLPRTRADEHEH.....IGYMGTSAFVRKIYTNVKID 576

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
1: /cgn2_6/ptodata/1/iaa/5A_COMB.pep:*
2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep:*
3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep:*
4: /cgn2_6/ptodata/1/iaa/6B_COMB.pep:*
5: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/1/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	3089	100.0	579	4	US-09-786-681A-4	Sequence 4, Appli
2	3089	100.0	582	4	US-09-786-681A-2	Sequence 2, Appli
3	1107	35.8	257	4	US-09-270-767-32308	Sequence 32308, A
4	950.5	30.8	625	3	US-08-959-004-10	Sequence 10, Appl
5	843.5	27.3	663	3	US-08-959-004-5	Sequence 5, Appli
6	843.5	27.3	676	4	US-09-949-016-9494	Sequence 9494, Ap
7	694	22.5	667	3	US-08-959-004-11	Sequence 11, Appl
8	628	20.3	133	4	US-09-270-767-44213	Sequence 44213, A
9	628	20.3	133	4	US-09-270-767-59636	Sequence 59636, A
10	613	19.8	111	4	US-09-513-999C-7579	Sequence 7579, Ap
11	580	18.8	218	4	US-09-270-767-46281	Sequence 46281, A
12	467	15.1	241	4	US-09-248-796A-20311	Sequence 20311, A
13	364	11.8	87	4	US-09-513-999C-7785	Sequence 7785, Ap
14	127	4.1	574	4	US-09-107-433-3877	Sequence 3877, Ap
15	127	4.1	605	4	US-09-583-110-4773	Sequence 4773, Ap
16	120.5	3.9	513	4	US-09-543-681A-8279	Sequence 8279, Ap
17	118.5	3.8	496	3	US-09-134-001C-3703	Sequence 3703, Ap
18	117.5	3.8	592	4	US-09-949-016-6953	Sequence 6953, Ap
19	117.5	3.8	609	4	US-09-949-016-8961	Sequence 8961, Ap
20	117.5	3.8	609	4	US-09-949-016-8962	Sequence 8962, Ap
21	115	3.7	502	4	US-09-328-352-6968	Sequence 6968, Ap
22	115	3.7	572	4	US-09-949-016-11237	Sequence 11237, A
23	115	3.7	572	4	US-09-949-016-11238	Sequence 11238, A
24	112.5	3.6	237	3	US-09-134-001C-3057	Sequence 3057, Ap
25	109	3.5	468	4	US-09-710-279-868	Sequence 868, App
26	109	3.5	468	4	US-09-710-279-1618	Sequence 1618, Ap
27	108.5	3.5	584	4	US-09-693-746-22	Sequence 22, Appl
28	107.5	3.5	408	2	US-08-742-440A-6	Sequence 6, Appli
29	107	3.5	353	4	US-09-576-160B-6	Sequence 6, Appli
30	106.5	3.4	504	4	US-09-489-039A-8489	Sequence 8489, Ap
31	104.5	3.4	453	1	US-08-439-131A-5	Sequence 5, Appli
32	104.5	3.4	453	1	US-08-440-674-4	Sequence 4, Appli
33	104.5	3.4	453	4	US-08-879-337-6	Sequence 6, Appli
34	104.5	3.4	822	4	US-09-824-734-3	Sequence 3, Appli
35	104	3.4	511	4	US-09-107-532A-6112	Sequence 6112, Ap
36	104	3.4	526	4	US-09-722-377-16	Sequence 16, Appl
37	104	3.4	526	4	US-09-722-377-19	Sequence 19, Appl
38	103	3.3	356	4	US-09-270-767-46804	Sequence 46804, A
39	102.5	3.3	402	4	US-09-270-767-35644	Sequence 35644, A
40	102.5	3.3	402	4	US-09-270-767-50861	Sequence 50861, A
41	102	3.3	407	4	US-09-328-352-5605	Sequence 5605, Ap
42	101.5	3.3	305	4	US-09-583-110-3512	Sequence 3512, Ap
43	101.5	3.3	2938	5	PCT-US94-00198-3	Sequence 3, Appli
44	100	3.2	171	4	US-09-248-796A-20285	Sequence 20285, A
45	99.5	3.2	511	4	US-09-328-352-6365	Sequence 6365, Ap

ALIGNMENTS

RESULT 1
US-09-786-681A-4
; Sequence 4, Application US/09786681A
; Patent No. 6692926
; GENERAL INFORMATION:
; APPLICANT: HIDAKA , Jun et al.
; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING L
; TITLE OF INVENTION: BINDING ACTIVITIES, AND THEIR USES
; FILE REFERENCE: 0020-4827P
; CURRENT APPLICATION NUMBER: US/09/786,681A
; CURRENT FILING DATE: 2001-01-24
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 4
; LENGTH: 579
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-786-681A-4

Query Match 100.0%; Score 3089; DB 4; Length 579;
Best Local Similarity 100.0%; Pred. No. 1.2e-294;
Matches 576; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 AALWLLLLLLPRTRADEHEHTYQDKEEVVLWMNTVGPYHNRQETYKYFSLPFCVGSKKSI 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          4 AALWLLLLLLPRTRADEHEHTYQDKEEVVLWMNTVGPYHNRQETYKYFSLPFCVGSKKSI 63

Qy         61 SHYHETLGEALQGVELEFSGLDIKFKDDVMPATYCEIDLDKEKRDAFVYAIKNHYWYQMY 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         64 SHYHETLGEALQGVELEFSGLDIKFKDDVMPATYCEIDLDKEKRDAFVYAIKNHYWYQMY 123

Qy        121 IDDLPIWGIVGEADENGEDYYLWTYKKLEIGFNGNRIVDVNLTSEGKVKLVPNTKIQMSY 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        124 IDDLPIWGIVGEADENGEDYYLWTYKKLEIGFNGNRIVDVNLTSEGKVKLVPNTKIQMSY 183

Qy        181 SVKWKKSDVKFEDRFDKYLDPSFFQHRIHWFSIFNSFMMVIFLVGLVSMILMRTLRKDYA 240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        184 SVKWKKSDVKFEDRFDKYLDPSFFQHRIHWFSIFNSFMMVIFLVGLVSMILMRTLRKDYA 243

Qy        241 RYSKEEEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVIIVAM 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        244 RYSKEEEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVIIVAM 303

Qy        301 IEDLYTERGSMLSTAIFVYAATSPVNGYFGGSLYARQGGRRWIKQMFIGAFLIPAMVCGT 360
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        304 IEDLYTERGSMLSTAIFVYAATSPVNGYFGGSLYARQGGRRWIKQMFIGAFLIPAMVCGT 363

Qy        361 AFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCRVNAV 420
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        364 AFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCRVNAV 423
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Qy        421 PRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIFTSFWAYKIYYVYGFMMLVLVILCI 480
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        424 PRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIFTSFWAYKIYYVYGFMMLVLVILCI 483

Qy        481 VTVCVTIVCTYFLLNAEDYRWQWTSFLSAASTAIYVYMYSFYYYFFKTKMYGLFQTSFYF 540
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        484 VTVCVTIVCTYFLLNAEDYRWQWTSFLSAASTAIYVYMYSFYYYFFKTKMYGLFQTSFYF 543

Qy        541 GYMAVFSTALGIMCGAIGYMGTSAFVRKIYTNVKID 576
              ||||||||||||||||||||||||||||||||||||
Db        544 GYMAVFSTALGIMCGAIGYMGTSAFVRKIYTNVKID 579


RESULT 2
US-09-786-681A-2
; Sequence 2, Application US/09786681A
; Patent No. 6692926
; GENERAL INFORMATION:
;  APPLICANT: HIDAKA , Jun et al.
;  TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING L
;  TITLE OF INVENTION:  BINDING ACTIVITIES, AND THEIR USES
;  FILE REFERENCE: 0020-4827P
;  CURRENT APPLICATION NUMBER: US/09/786,681A
;  CURRENT FILING DATE:  2001-01-24
;  NUMBER OF SEQ ID NOS: 7
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
;   LENGTH: 582
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-786-681A-2

  Query Match           100.0%;  Score 3089;  DB 4;  Length 582;
  Best Local Similarity  100.0%;  Pred. No. 1.2e-294;
  Matches  576;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 AALWLLLLLLLPRTRADEHEHTYQDKEEVVLWMNTVGPYHNRQETYKYFSLPFCVGSKKSI 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          7 AALWLLLLLLLPRTRADEHEHTYQDKEEVVLWMNTVGPYHNRQETYKYFSLPFCVGSKKSI 66

Qy         61 SHYHETLGEALQGVELEFSGLDIKFKDDVMPATYCEIDLDKEKRDAFVYAIKNHYWYQMY 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         67 SHYHETLGEALQGVELEFSGLDIKFKDDVMPATYCEIDLDKEKRDAFVYAIKNHYWYQMY 126

Qy        121 IDDLPIWGIVGEADENGEDYYLWTYKKLEIGFNGNRIVDVNLTSEGKVKLVPNTKIQMSY 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        127 IDDLPIWGIVGEADENGEDYYLWTYKKLEIGFNGNRIVDVNLTSEGKVKLVPNTKIQMSY 186

Qy        181 SVKWKKSDVKFEDRFDKYLDPSFFQHRIHWFSIFNSFMMVIFLVGLVSMILMRTLRKDYA 240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        187 SVKWKKSDVKFEDRFDKYLDPSFFQHRIHWFSIFNSFMMVIFLVGLVSMILMRTLRKDYA 246

Qy        241 RYSKEEEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVIIVAM 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        247 RYSKEEEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVIIVAM 306

Qy        301 IEDLYTERGSMLSTAIFVYAATSPVNGYFGGSLYARQGGRRWIKQMFIGAFLIPAMVCGT 360
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        307 IEDLYTERGSMLSTAIFVYAATSPVNGYFGGSLYARQGGRRWIKQMFIGAFLIPAMVCGT 366

Qy        361 AFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCRVNAV 420
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        367 AFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCRVNAV 426

Qy        421 PRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIFTSFWAYKIYYVYGFMMLVLVILCI 480
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        427 PRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIFTSFWAYKIYYVYGFMMLVLVILCI 486

Qy        481 VTVCVTIVCTYFLLNAEDYRWQWTSFLSAASTAIYVYMYSFYYYFFKTKMYGLFQTSFYF 540
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        487 VTVCVTIVCTYFLLNAEDYRWQWTSFLSAASTAIYVYMYSFYYYFFKTKMYGLFQTSFYF 546

Qy        541 GYMAVFSTALGIMCGAIGYMGTSAFVRKIYTNVKID 576
              ||||||||||||||||||||||||||||||||||||
Db        547 GYMAVFSTALGIMCGAIGYMGTSAFVRKIYTNVKID 582


RESULT 3
US-09-270-767-32308
; Sequence 32308, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 32308
;   LENGTH: 257
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
US-09-270-767-32308

  Query Match           35.8%;  Score 1107;  DB 4;  Length 257;
  Best Local Similarity  78.2%;  Pred. No. 2.2e-100;
  Matches  201;  Conservative   27;  Mismatches   29;  Indels    0;  Gaps    0;

Qy        180 YSVKWKKSDVKFEDRFDKYLDPSFFQHRIHWFSIFNSFMMVIFLVGLVSMILMRTLRKDY 239
              | | || | |:|::||||||||:||||||||||||||||||||||||||||||||||||||
Db          1 YEVNWKPSKVEFKNRFDKYLDPNFFQHRIHWFSIFNSFMMVIFLVGLVSMILMRTLRKDY 60

Qy        240 ARYSKEEEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVIIVA 299
              |||||:||:|||:|||||||||||||||||   : |:||:|:|:| |: :|   ||: |
Db         61 ARYSKDEEIDDMERDLGDEYGWKQVHGDVFRSPPNTLLFSALVGAGYQLISVVFCVIMFA 120

Qy        300 MIEDLYTERGSMLSTAIFVYAATSPVNGYFGGSLYARQGGRRWIKQMFIGAFLIPAMVCG 359
              :: :|||||||||||||||||||:|||||||||| ||| ||:|| : || :|  |||
Db        121 IVGELYTERGSMLSTAIFVYAATSPINGYFGGSLYARLGGRMWIRQMLVSAFTVPVAVCG 180

Qy        360 TAFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCRVNA 419
              ||| |||||| |||||||||||||| ||| |||||| ||||::|||| |||:|||||||
Db        181 TAFLINFIAIGYHASRAIPFGTMVAVTCICLFVILPLTLVGTVVGRNLDGQPDFPCRVNA 240

Qy        420 VPRPIPEKKWFMEPAVI 436
              |||||||||:||| :|
Db        241 VPRPIPEKKWYMEPLII 257


RESULT 4
US-08-959-004-10
; Sequence 10, Application US/08959004
; Patent No. 6197543
;  GENERAL INFORMATION:
;    APPLICANT:  Hillman, Jennifer L.
;    APPLICANT:  Yue, Henry
;    APPLICANT:  Corley, Neil C.
;    APPLICANT:  Lal, Preeti
;    APPLICANT:  Shah, Purvi
;    APPLICANT:  Kaser, Matthew
;    TITLE OF INVENTION:  HUMAN VESICLE MEMBRANE PROTEIN-LIKE
;    TITLE OF INVENTION:  PROTEINS
;    NUMBER OF SEQUENCES:  11
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Incyte Pharmaceuticals, Inc.
;      STREET:  3174 Porter Drive
;      CITY:  Palo Alto
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94304
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
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;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/959,004
;      FILING DATE:  Herewith
;      CLASSIFICATION:  514
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Billings, Lucy J.
;      REGISTRATION NUMBER:  36,749
;      REFERENCE/DOCKET NUMBER:  PF-0414 US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  650-855-0555
;      TELEFAX:  650-845-4166
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  10:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  625 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    IMMEDIATE SOURCE:
;      LIBRARY:  GenBank
;      CLONE:  1665777
US-08-959-004-10

  Query Match           30.8%;  Score 950.5;  DB 3;  Length 625;
  Best Local Similarity  35.7%;  Pred. No. 1.9e-84;
  Matches  214;  Conservative  100;  Mismatches  212;  Indels   73;  Gaps   11;

Qy         42 QETYKYFSLPFCVGSKKSISHYHETLGEALQGVELEFSGLDIKFKDDVMPATYCE----- 96
              |  |:|:|||||  ||  |::  | ||| |:|  :  :   :    :      |
Db         36 QLPYEYYSLPFCQPSK--ITYKAENLGEVLRGDRIVNTPFQVLMNSEKKCEVLCSQSNKP 93

Qy         97 IDLDKEKRDAFVYAIKNHYWYQMYIDDLPI----------------------WGI-VG 131
              : |  |:       |   |:  :  |:||:                     |  :|
Db         94 VTLTVEQSRLVAERITEDYYVHLIADNLPVATRLELYSNRDSDDKKKEKDVQFEHGYRLG 153

Qy        132 EAD-----------------ENGEDYYLWTYK--KLEIGFNGNRIVDVNLTSEGKVKLV 171
              |                   |: |:    ||:  : |:     |: |:    :    |
Db        154 FTDVNKIYLHNHLSFILYYHREDMEEDQEHTYRVVRFEVIPQSIRLEDLKADEKSSCTLP 213

Qy        172 PNT------------KIQMSYSVKWKKSDVKFEDRFDKYLDPSFFQHRIHWFSIFNSFM 218
              |            ::  :||| |::||:|:  |:| ||  |  |  ||||| || :
Db        214 EGTNSSPQEIDPTKENQLYFTYSVHWEESDIKWASRWDTYLTMSDVQ--IHWFSIINSVV 271

Qy        219 MVIFLVGLVSMILMRTLRKDYARYSKEEEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIF 278
              :| || |::|||::|||||| | |:||::::    |  :| ||| ||||||||  :|:|
Db        272 VVFFLSGILSMIIIRTLRKDIANYNKEDDIE----DTMEESGWKLVHGDVFRPPQYPMIL 327

Qy        279 SSLIGSGCQIFAVSLIVIIVAMIEDLY-TERGSMLSTAIFVYAATSPVNGYFGGSLYARQ 337
              |||:||| |:| : |||| |||:  |  : ||::::|| |::       |:  | ||
Db        328 SSLLGSGIQLFCMILIVIFVAMLGMLSPSSRGALMTTACFLFMFMGVFGGFSAGRLYRTL 387

Qy        338 GGRRWIKQMFIGAFLIPAMVCGTAFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLN 397
              | || |  |  | | | | :| |  | :|      |:| |:|| |||| |: |  : |||
Db        388 KGHRWKKGAFCTATLYPGVVFGICFVLNCFIWGKHSSGAVPFPTMVALLCMWFGISLPLV 447

Qy        398 LVGTILGRNLSGQPNFPCRVNAVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIFT 457
              :|   |        | | | | :|| |||::|:|   | : : ||||||::|||::|||:
Db        448 YLGYYFGFRKQPYDN-PVRTNQIPRQIPEQRWYMNRFVGILMAGILPFGAMFIELFFIFS 506

Qy        458 SFWAYKIYYVYGFMMLVLVILCIVTVCVTIVCTYFLLNAEDYRWQWTSFLSAASTAIYVY 517
              : |  : ||::||: || :|| :    ::||  || | |||||| | :|| :  :| ||
Db        507 AIWENQFYYLFGFLFLVFIILVVSCSQISIVMVYFQLCAEDYRWWWRNFLVSGGSAFYVL 566

Qy        518 MYSFYYYFFKTKMYGLFQTSFYFGYMAVFSTALGIMCGAIGYMGTSAFVRKIYTNVKID 576
              :|: :|:  |  :     :  |||| |:  :  :: | |||:     ||||||  ||||
Db        567 VYAIFYFVNKLDIVEFIPSLLYFGYTALMVLSFWLLTGTIGFYAAYMFVRKIYAAVKID 625

RESULT 5
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US-08-959-004-5
; Sequence 5, Application US/08959004
; Patent No. 6197543
;  GENERAL INFORMATION:
;    APPLICANT:  Hillman, Jennifer L.
;    APPLICANT:  Yue, Henry
;    APPLICANT:  Corley, Neil C.
;    APPLICANT:  Lal, Preeti
;    APPLICANT:  Shah, Purvi
;    APPLICANT:  Kaser, Matthew
;    TITLE OF INVENTION:  HUMAN VESICLE MEMBRANE PROTEIN-LIKE
;    TITLE OF INVENTION:  PROTEINS
;    NUMBER OF SEQUENCES:  11
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Incyte Pharmaceuticals, Inc.
;      STREET:  3174 Porter Drive
;      CITY:  Palo Alto
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94304
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/959,004
;      FILING DATE:  Herewith
;      CLASSIFICATION:  514
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Billings, Lucy J.
;      REGISTRATION NUMBER:  36,749
;      REFERENCE/DOCKET NUMBER:  PF-0414 US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  650-855-0555
;      TELEFAX:  650-845-4166
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  5:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  663 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    IMMEDIATE SOURCE:
;      LIBRARY:  ADRETUT06
;      CLONE:  2822412
US-08-959-004-5

  Query Match           27.3%;  Score 843.5;  DB 3;  Length 663;
  Best Local Similarity  31.2%;  Pred. No. 6.7e-74;
  Matches  199;  Conservative  120;  Mismatches  234;  Indels   85;  Gaps   16;

Qy          9 LLPRTRADEHEHTYQDKEEVVLWMNTVGPYHNRQETYKYFSLPFCVGSKKSISHYHETLG 68
              | |    || : : : | |: |::| :    :    |:| :  ||  |:        | ||
Db         41 LAPVNFCDEEKKSDECKAEIELFVNRLDSVES-VLPYEYTAFDFCQASEG--KRPSENLG 97

Qy         69 EALQGVELEFSGLDIKFKDD-----VMPATY-CEIDLDKEKRDAFVYAIKNHYWYQMYID 122
              : | |  :| |      |          |   ||  |   ||:| :    ::  :| :   :|
Db         98 QVLFGERIEPSPYKFTFNKKETCKLVCTKTYHTEKAEDKQKLEFLKKSMLLNYQHHWIVD 157

Qy        123 DLPI-W----------------------------GIVGEADENGED-YYLWT------- 144
              ::|: |                            |  :| :  | :|::
Db        158 NMPVTWCYDVEDGQRFCNPGFPIGCYITDKGHAKDACVISSDFHERDTFYIFNHVDIKIY 217

Qy        145 YKKLEIGFNGNRIV----------------------DVNLTSEGKVKLVPNTKIQMSY 180
              |  :| |  | |:|                     |::  : |::      ||  :|
Db        218 YHVVETGSMGARLVAAKLEPKSFKHTHIDKPDCSGPPMDISNKASGEI------KIAYTY 271

Qy        181 SVKWKKSD-VKFEDRFDKYLDPSFFQHRIHWFSIFNSFMMVIFLVGLVSMILMRTLRKDY 239
              || ::: | :::  |:|  |:     | | |||| || ::|:|| |:|:||::||| ||
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Db        272 SVSFEEDDKIRWASRWDYILESMPHTH-IQWFSIMNSLVIVLFLSGMVAMIMLRTLHKDI 330

Qy        240 ARYSKEEEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVIIVA 299
              |||:   :||  : |  :|:||| ||||:|||    :: |  :||| ||  :: : :  |
Db        331 ARYN---QMDSTE-DAQEEFGWKLVHGDIFRPPRKGMLLSVFLGSGTQILIMTFVTLFFA 386

Qy        300 MIEDLY-TERGSMLSTAIFVYAATSPVNGYFGGSLYARQGGRRWIKQMFIGAFLIPAMVC 358
               :  |    ||:::: |: ::       ||      |   || :|  : : :|| | :|
Db        387 CLGFLSPANRGALMTCAVVLWVLLGTPAGYVAARFYKSFGGEKWKTNVLLTSFLCPGIVF 446

Qy        359 GTAFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCRVN 418
                | :| |     :| |||||:||:  : | : :||  :|   |   :   : | | |
Db        447 ADFFIMNLILWGEGSSAAIPFGTLVAILALWFCISVPLTFIGAYFGFKKNAIEH-PVRTN 505

Qy        419 AVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIFTSFWAYKIYYVYGFMMLVLVIL 478
               :|| |||: :: :|   : :|||||| |||:::||  | |::::||::||: || :||
Db        506 QIPRQIPEQSFYTKPLPGIIMGGILPFGCIFIQLFFILNSIWSHQMYYMFGFLFLVFIIL 565

Qy        479 CIVTVCVTIVCTYFLLNAEDYRWQWTSFLSAASTAIYVYMYSFYYYFFKTKMYGLFQTSF 538
                |     ||:  || | |||| ||| |||::  ||:|  :|: :|:| | :: |   |
Db        566 VITCSEATILLCYFHLCAEDYHWQWRSFLTSGFTAVYFLIYAVHYFFSKLQITGTASTIL 625

Qy        539 YFGYMAVFSTALGIMCGAIGYMGTSAFVRKIYTNVKID 576
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Db        626 YFGYTMIMVLIFFLFTGTIGFFACFWFVTKIYSVVKVD 663


RESULT 6
US-09-949-016-9494
; Sequence 9494, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9494
;   LENGTH: 676
;   TYPE: PRT
;   ORGANISM: Human
US-09-949-016-9494

  Query Match             27.3%;  Score 843.5;  DB 4;  Length 676;
  Best Local Similarity   31.2%;  Pred. No. 6.9e-74;
  Matches  199;  Conservative  120;  Mismatches  234;  Indels   85;  Gaps   16;

Qy          9 LLPRTRADEHEHTYQDKEEVVLWMNTVGPYHNRQETYKYFSLPFCVGSKKSISHYHETLG 68
              | |    || : : : | |: |::| :    :    |:| :  ||  |:       | ||
Db         54 LAPVNFCDEEKKSDECKAEIELFVNRLDSVES-VLPYEYTAFDFCQASEG--KRPSENLG 110

Qy         69 EALQGVELEFSGLDIKFKDD-----VMPATY-CEIDLDKEKRDAFVYAIKNHYWYQMYID 122
              : | |  :| |      |         |   ||  |   ||:| :    ::  :| :   :|
Db        111 QVLFGERIEPSPYKFTFNKKETCKLVCTKTYHTEKAEDKQKLEFLKKSMLLNYQHHWIVD 170

Qy        123 DLPI-W----------------------------GIVGEADENGED-YYLWT------- 144
              ::|: |                            |  :| :  | :|::
Db        171 NMPVTWCYDVEDGQRFCNPGFPIGCYITDKGHAKDACVISSDFHERDTFYIFNHVDIKIY 230

Qy        145 YKKLEIGFNGNRIV-----------------------DVNLTSEGKVKLVPNTKIQMSY 180
              |  :| |  | |:|                      |::  : |::      ||  :|
Db        231 YHVVETGSMGARLVAAKLEPKSFKHTHIDKPDCSGPPMDISNKASGEI------KIAYTY 284

Qy        181 SVKWKKSD-VKFEDRFDKYLDPSFFQHRIHWFSIFNSFMMVIFLVGLVSMILMRTLRKDY 239
              || ::: | :::  |:|  |:     | | |||| || ::|:|| |:|:||::||| ||
Db        285 SVSFEEDDKIRWASRWDYILESMPHTH-IQWFSIMNSLVIVLFLSGMVAMIMLRTLHKDI 343

Qy        240 ARYSKEEEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVIIVA 299
              |||:   :||  : |  :|:||| ||||:|||    :: |  :||| ||  :: : :  |
Db        344 ARYN---QMDSTE-DAQEEFGWKLVHGDIFRPPRKGMLLSVFLGSGTQILIMTFVTLFFA 399

Qy        300 MIEDLY-TERGSMLSTAIFVYAATSPVNGYFGGSLYARQGGRRWIKQMFIGAFLIPAMVC 358
               :  |    ||:::: |: ::       ||      |   || :|  : : :|| | :|
Db        400 CLGFLSPANRGALMTCAVVLWVLLGTPAGYVAARFYKSFGGEKWKTNVLLTSFLCPGIVF 459

Qy        359 GTAFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCRVN 418
                | :| |     :| |||||:||:  : | : :||  :|   |   :   : | | |
Db        460 ADFFIMNLILWGEGSSAAIPFGTLVAILALWFCISVPLTFIGAYFGFKKNAIEH-PVRTN 518

Qy        419 AVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIFTSFWAYKIYYVYGFMMLVLVIL 478
               :|| |||: :: :|   : :|||||| |||:::||  | |::::||::||: || :||
Db        519 QIPRQIPEQSFYTKPLPGIIMGGILPFGCIFIQLFFILNSIWSHQMYYMFGFLFLVFIIL 578

Qy        479 CIVTVCVTIVCTYFLLNAEDYRWQWTSFLSAASTAIYVYMYSFYYYFFKTKMYGLFQTSF 538
                |     ||:  || | |||| ||| |||::  ||:|  :|: :|:| | :: |   |
Db        579 VITCSEATILLCYFHLCAEDYHWQWRSFLTSGFTAVYFLIYAVHYFFSKLQITGTASTIL 638

Qy        539 YFGYMAVFSTALGIMCGAIGYMGTSAFVRKIYTNVKID 576
              ||||  :      :  | ||:     || |||: ||:|
Db        639 YFGYTMIMVLIFFLFTGTIGFFACFWFVTKIYSVVKVD 676


RESULT 7
US-08-959-004-11
; Sequence 11, Application US/08959004
; Patent No. 6197543
;  GENERAL INFORMATION:
;    APPLICANT:  Hillman, Jennifer L.
;    APPLICANT:  Yue, Henry
;    APPLICANT:  Corley, Neil C.
;    APPLICANT:  Lal, Preeti
;    APPLICANT:  Shah, Purvi
;    APPLICANT:  Kaser, Matthew
;    TITLE OF INVENTION:  HUMAN VESICLE MEMBRANE PROTEIN-LIKE
;    TITLE OF INVENTION:  PROTEINS
;    NUMBER OF SEQUENCES:  11
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Incyte Pharmaceuticals, Inc.
;      STREET:  3174 Porter Drive
;      CITY:  Palo Alto
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94304
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/959,004
;      FILING DATE:  Herewith
;      CLASSIFICATION:  514
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Billings, Lucy J.
;      REGISTRATION NUMBER:  36,749
;      REFERENCE/DOCKET NUMBER:  PF-0414 US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  650-855-0555
;      TELEFAX:  650-845-4166
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  11:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  667 amino acids
;      TYPE:  amino acid
```

```
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    IMMEDIATE SOURCE:
;      LIBRARY:  GenBank
;      CLONE:  2131246
US-08-959-004-11

  Query Match             22.5%;  Score 694;  DB 3;  Length 667;
  Best Local Similarity   27.0%;  Pred. No. 3.3e-59;
  Matches  175;  Conservative  116;  Mismatches  254;  Indels  102;  Gaps   14;

Qy          21 TYQDKEEVVLWMNTVGP---YHNRQE-------------TYKYFSLPFCVGSKKSISHY 63
               ||:: : : | :| : |   | :: |                :| |:   |     : :
Db          32 TYRENDNIPLLVNHLTPSMNYQHKDEDGNNVSGDKENFLYSYDYYYNRFHFCQPEKVEKQ 91

Qy          64 HETLGEALQGVELEFSGLDIKFKDDVMPATYCEIDLDKEKRDAFVYAIKNHYWYQMYIDD 123
                 |:||  : |  : |   :    :   : |:  :  :         ||| ::    ||
Db          92 PESLGSVIFGDRIYNSPFQLNMLQEKECESLCKTVIPGDDAKFINKLIKNGFFQNWLIDG 151

Qy         124 LP------------------------------IWGIVGEADENGEDYYLWT------YK 146
               ||                              |      |:   :|  | |       |
Db         152 LPAAREVYDGRTKTSFYGAGFNLGFVQVTQGTDIEATPKGAETTDKDVELETRNDRNMVK 211

Qy         147 KLEIGFNGNR---IVDVNLTSEGKVKLV-------------PNT---------------- 174
                 |: :  |    ::: :   ||  ::|              | |
Db         212 TYELPYFANHFDIMIEYHDRGEGNYRVVGVIVEPVSIKRSSPGTCETTGSPLMLDEGNDN 271

Qy         175 KIQMSYSVKWKKSDVKFEDRFDKYL---DPSFFQHRIHWFSIFNSFMMVIFLVGLVSMIL 231
               ::  :|||: :|   :  |:|||   |||      | |||: |  ::|: |  :|   |
Db         272 EVYFTYSVKFNESATSWATRWDKYLHVYDPS-----IQWFSLINFSLVVVLLSSVVIHSL 326

Qy         232 MRTLRKDYARYSKEEEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAV 291
               :| |: |:|||: |  :||   |  :: |||  ||||||  |  |  | |:||| |:| :
Db         327 LRALKSDFARYN-ELNLDD---DFQEDSGWKLNHGDVFRSPSQSLTLSILVGSGVQLFLM 382

Qy         292 SLIVIIVAMIEDLY-TERGSMLSTAIFVYAATSPVNGYFGGSLYARQGGRRWIKQMFIGA 350
                 |  | :  |  : |||: :    :||    |  |    :|    |  |   : :
Db         383 VTCSIFFAALGFLSPSSRGSLATVMFILYALFGFVGSYTSMGIYKFFNGPYWKANLILTP 442

Qy         351 FLIPAMVCGTAFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQ 410
               |:|  :      :||  :: |:|  ||  |:  :  :|   :||:  |::: |
Db         443 LLVPGAILLIIIALNFFLMFVHSSGVIPASTLFFMVFLWFLFSIPLSFAGSLIARKRCHW 502

Qy         411 PNFPCRVNAVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIFTSFWAYKIYYVYGF 470
                 | : | : | || : |:::      : || ||||| :|:|||:|| |  ||:|::||
Db         503 DEHPTKTNQIARQIPFQPWYLKTIPATLIAGIFPFGSIAVELYFIYTSLWFNKIFYMFGF 562

Qy         471 MMLVLVILCIVTVCVTIVCTYFLLNAEDYRWQWTSF-LSAASTAIYVYMYSFYYYFFKTK 529
               :    ::| : :  |||: ||  |  |:::|||  | :  |  |:||:::|    | | |
Db         563 LFFSFLLLTLTSSLVTILITYHSLCLENWKWQWRGFIIGGAGCALYVFIHSI--LFTKFK 620

Qy         530 MYGLFQTSFYFGYMAVFSTALGIMCGAIGYMGTSAFVRKIYTNVKID 576
               : |       | || :| |    :: |:||:: :  ||||||:::|:|
Db         621 LGGFTTIVLYVGYSSVISLLCCLVTGSIGFISSMLFVRKIYSSIKVD 667


RESULT 8
US-09-270-767-44213
; Sequence 44213, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 44213
;   LENGTH: 133
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
US-09-270-767-44213

  Query Match             20.3%;  Score 628;  DB 4;  Length 133;
  Best Local Similarity   83.5%;  Pred. No. 9.6e-54;
  Matches  111;  Conservative   14;  Mismatches    8;  Indels    0;  Gaps    0;

Qy         444 PFGSIFIEMYFIFTSFWAYKIYYVYGFMMLVLVILCIVTVCVTIVCTYFLLNAEDYRWQW 503
               |||||||||||||||||||||||||||||:||  || :|||||||||||||||||||||||
Db           1 PFGSIFIEMYFIFTSFWAYKIYYVYGFMLLVFSILTVVTVCVTIVCTYFLLNAEDYRWQW 60

Qy         504 TSFLSAASTAIYVYMYSFYYYFFKTKMYGLFQTSFYFGYMAVFSTALGIMCGAIGYMGTS 563
               |||::| ||:|||| |||||:||||||:|||||:|||||||:|| ||||:|| :||:||:
Db          61 TSFMAAGSTSIYVYAYSFYYFFFKTKMFGLFQTAFYFGYMALFSGALGIICGTVGYVGTN 120

Qy         564 AFVRKIYTNVKID 576
                 ||||||:|||||
Db         121 LFVRKIYSNVKID 133


RESULT 9
US-09-270-767-59636
; Sequence 59636, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 59636
;   LENGTH: 133
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
US-09-270-767-59636

  Query Match             20.3%;  Score 628;  DB 4;  Length 133;
  Best Local Similarity   83.5%;  Pred. No. 9.6e-54;
  Matches  111;  Conservative   14;  Mismatches    8;  Indels    0;  Gaps    0;

Qy         444 PFGSIFIEMYFIFTSFWAYKIYYVYGFMMLVLVILCIVTVCVTIVCTYFLLNAEDYRWQW 503
               |||||||||||||||||||||||||||||:||  || :|||||||||||||||||||||||
Db           1 PFGSIFIEMYFIFTSFWAYKIYYVYGFMLLVFSILTVVTVCVTIVCTYFLLNAEDYRWQW 60

Qy         504 TSFLSAASTAIYVYMYSFYYYFFKTKMYGLFQTSFYFGYMAVFSTALGIMCGAIGYMGTS 563
               |||::| ||:|||| |||||:||||||:|||||:|||||||:|| ||||:|| :||:||:
Db          61 TSFMAAGSTSIYVYAYSFYYFFFKTKMFGLFQTAFYFGYMALFSGALGIICGTVGYVGTN 120

Qy         564 AFVRKIYTNVKID 576
                 ||||||:|||||
Db         121 LFVRKIYSNVKID 133


RESULT 10
US-09-513-999C-7579
; Sequence 7579, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
;  APPLICANT: Dumas Milne Edwards, J.B.
;  APPLICANT:  Duclert, A.
;  APPLICANT:  Giordano, J.Y.
;  TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6783961
;  FILE REFERENCE: 59.US2.REG
;  CURRENT APPLICATION NUMBER: US/09/513,999C
;  CURRENT FILING DATE:  2000-02-24
;  PRIOR APPLICATION NUMBER: US 60/122,487
;  PRIOR FILING DATE: 1999-02-26
;  NUMBER OF SEQ ID NOS: 36681
;  SOFTWARE: Patent.pm
; SEQ ID NO 7579
;   LENGTH: 111
;   TYPE: PRT
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;   ORGANISM: Homo sapiens
US-09-513-999C-7579

  Query Match             19.8%;  Score 613;  DB 4;  Length 111;
  Best Local Similarity   100.0%;  Pred. No. 2.2e-52;
  Matches  111;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         32 MNTVGPYHNRQETYKYFSLPFCVGSKKSISHYHETLGEALQGVELEFSGLDIKFKDDVMP 91
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MNTVGPYHNRQETYKYFSLPFCVGSKKSISHYHETLGEALQGVELEFSGLDIKFKDDVMP 60

Qy         92 ATYCEIDLDKEKRDAFVYAIKNHYWYQMYIDDLPIWGIVGEADENGEDYYL 142
              ||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 ATYCEIDLDKEKRDAFVYAIKNHYWYQMYIDDLPIWGIVGEADENGEDYYL 111


RESULT 11
US-09-270-767-46281
; Sequence 46281, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 46281
;   LENGTH: 218
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
US-09-270-767-46281

  Query Match             18.8%;  Score 580;  DB 4;  Length 218;
  Best Local Similarity   63.3%;  Pred. No. 1e-48;
  Matches  105;  Conservative   20;  Mismatches   37;  Indels    4;  Gaps    1;

Qy          2 ALWLLLLL----LPRTRADEHEHTYQDKEEVVLWMNTVGPYHNRQETYKYFSLPFCVGSK 57
              |: | ||:    :  ::|||| | | |:|||||||||||||||||||| ||||||| | |
Db         53 AICLCLLIASCYVSLSQADEHNHKYNDREEVVLWMNTVGPYHNRQETYAYFSLPFCSGQK 112

Qy         58 KSISHYHETLGEALQGVELEFSGLDIKFKDDVMPATYCEIDLDKEKRDAFVYAIKNHYWY 117
               ||||||||| |||||||||||| :::|| |   :  | : | :|   || ||:|| |||
Db        113 SSISHYHETLSEALQGVELEFSGYEMEFKSDAPKSVICMVTLQEESAKAFTYAVKNEYWY 172

Qy        118 QMYIDDLPIWGIVGEADENGEDYYLWTYKKLEIGFNGNRIVDVNLT 163
              ||||| ||||| ||| ||    ||::|:|| :||:|| :|||: ||
Db        173 QMYIDGLPIWGKVGERDERDGKYYIFTHKKFDIGYNGQQIVDITLT 218


RESULT 12
US-09-248-796A-20311
; Sequence 20311, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
;  APPLICANT: Keith Weinstock et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 107196.132
;  CURRENT APPLICATION NUMBER: US/09/248,796A
;  CURRENT FILING DATE:  1999-02-12
;  PRIOR APPLICATION NUMBER: US 60/074,725
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: US 60/096,409
;  PRIOR FILING DATE: 1998-08-13
;  NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 20311
;   LENGTH: 241
;   TYPE: PRT
;   ORGANISM: Candida albicans
US-09-248-796A-20311

  Query Match             15.1%;  Score 467;  DB 4;  Length 241;
  Best Local Similarity   37.3%;  Pred. No. 1.5e-37;
  Matches   91;  Conservative   50;  Mismatches   91;  Indels   12;  Gaps    4;

Qy        338 GGRRWIKQMFIGAFLIPAMVCGTAFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLN 397
              ||  |   ||:   |:| ::      :||  |   :| ||  ||| |:  | | : :||:
Db          5 GGDNWKLNMFLTPVLVPGILSLVFVVLNFFLISVQSSGAIHMGTMFAIVLIWFIISIPLS 64

Qy        398 LVGTILGRNLSGQP--NFPCRVNAVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFI 455
              ::|:||  |   :|  : | | | :|| || : |::    :: : || ||||| :|||||
Db         65 VIGSILASN---RPLLSVPVRTNQIPRQIPTQPWYLSTIPVMFISGIFPFGSIAVEMYFI 121

Qy        456 FTSFWAYKIYYVYGFMMLVLVILCIVTVCVTIVCTYFLLNAEDYRWQWTSFLSAASTAIY 515
              ::| |  ||:|::||:    ::: : :  :||:  |: | :|:|:||| |       |||
Db        122 YSSIWFNKIFYMFGFLFFCFILMILTSSLITILMIYYTLCSENYKWQWKSLFVGGGCAIY 181

Qy        516 VYMYSFYYYFFKT---KMYGLFQTSFYFGYMAVFSTALGIMCGAIGYMGTSAFVRKIYTN 572
              |:::|    || |   | |      | || || |  : : ||:||:: :  ||| ||
Db        182 VFIHS----FFLTGGEKFGGFSSLVLYSGYSAVISLLVFLCCGSIGFISSLIFVRLIYGQ 237

Qy        573 VKID 576
              :|||
Db        238 IKID 241


RESULT 13
US-09-513-999C-7785
; Sequence 7785, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
;  APPLICANT: Dumas Milne Edwards, J.B.
;  APPLICANT:  Duclert, A.
;  APPLICANT:  Giordano, J.Y.
;  TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6783961
;  FILE REFERENCE: 59.US2.REG
;  CURRENT APPLICATION NUMBER: US/09/513,999C
;  CURRENT FILING DATE:  2000-02-24
;  PRIOR APPLICATION NUMBER: US 60/122,487
;  PRIOR FILING DATE: 1999-02-26
;  NUMBER OF SEQ ID NOS: 36681
;  SOFTWARE: Patent.pm
; SEQ ID NO 7785
;   LENGTH: 87
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: UNSURE
;   LOCATION: 2
;   OTHER INFORMATION: Xaa=Lys or Met or Arg or Thr
;   FEATURE:
;   NAME/KEY: UNSURE
;   LOCATION: 55
;   OTHER INFORMATION: Xaa=Ala or Asp or Gly or Val
;   FEATURE:
;   NAME/KEY: UNSURE
;   LOCATION: 73
;   OTHER INFORMATION: Xaa=Ala or Asp
;   FEATURE:
;   NAME/KEY: UNSURE
;   LOCATION: 74
;   OTHER INFORMATION: Xaa=Lys or Thr
US-09-513-999C-7785

  Query Match             11.8%;  Score 364;  DB 4;  Length 87;
  Best Local Similarity   91.1%;  Pred. No. 4.5e-28;
  Matches   72;  Conservative    0;  Mismatches    7;  Indels    0;  Gaps    0;

Qy        251 MDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVIIVAMIEDLYTERGS 310
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||| |||||||
Db          3 MDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVIIVAMIEXLYTERGS 62

Qy        311 MLSTAIFVYAATSPVNGYF 329
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Db         63 MLSTAIFVYAXXSPSEWLF 81


RESULT 14
US-09-107-433-3877
; Sequence 3877, Application US/09107433
; Patent No. 6800744
;  GENERAL INFORMATION:
;       APPLICANT: Lynn A Doucette-Stamm  and David Bush
;       TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID
;                           SEQUENCES RELATING TO STREPTOCOCCUS PNEUMONIAE   FOR DIAGNO
;                           THERAPEUTICS
;       NUMBER OF SEQUENCES: 5206
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: GENOME THERAPEUTICS CORPORATION
;            STREET: 100 Beaver Street
;            CITY: Waltham
;            STATE: Massachusetts
;            COUNTRY: USA
;            ZIP: 02354
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: CD/ROM ISO9660
;            COMPUTER: <Unknown>
;            OPERATING SYSTEM: <Unknown>
;            SOFTWARE: <Unknown>
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/09/107,433
;            FILING DATE: 30-Jun-1998
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: 60/ 085131
;            FILING DATE: May 12, 1998
;            APPLICATION NUMBER: 60/051553
;            FILING DATE: July 2, 1997
;       ATTORNEY/AGENT INFORMATION:
;            NAME: Ariniello, Pamela Deneke
;            REGISTRATION NUMBER: 40,489
;            REFERENCE/DOCKET NUMBER: GTC-011
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: (781)893-5007
;            TELEFAX: (781)893-8277
;   INFORMATION FOR SEQ ID NO: 3877:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 574 amino acids
;            TYPE: amino acid
;            TOPOLOGY: linear
;       MOLECULE TYPE: protein
;       HYPOTHETICAL: YES
;       ORIGINAL SOURCE:
;            ORGANISM: Streptococcus pneumoniae
;       FEATURE:
;            NAME/KEY:  misc_feature
;            LOCATION: (B) LOCATION 1...574
;       SEQUENCE DESCRIPTION: SEQ ID NO: 3877:
US-09-107-433-3877

  Query Match             4.1%;  Score 127;  DB 4;  Length 574;
  Best Local Similarity   19.8%;  Pred. No. 0.0014;
  Matches   73;  Conservative   60;  Mismatches  117;  Indels  118;  Gaps   17;

Qy        203 FFQHRIHWFSIFNSFMMVIFLVGLVSMILMRTLRKDYARYSKEEEMDDMDRDLGDEYG-- 260
              ||: |      |   :  : |: ||:|     :|:||              :| :
Db         33 FFRRR------FYRIVPPVVLMVLVTMPFTFLVRQDYV-----------AGIGGQIASV 74

Qy        261 -------WKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVIIVAMIEDLYTERGSMLS 313
                    :: : |  :    || :|       ::    |  : | :   : :    |
Db         75 LGFMTNFYELLTGGSYESQFHPHLFVHNWSLAVEVHYYILWGLAVWFL-STHAKSNGQLK 133

Qy        314 TAIFVYAATSPVNGYFGGSLYARQGGRRWIKQMFIGAFLIPAMVCGTAFFINFIAIYYHA 373
              :|: :| : :  :|                |||:||: :   : :| :   :|
Db        134 GMVFLLSAVAFLISFF--------------SMFIGSFLVTSY--SSVYFSSLTHVY--- 173

Qy        374 SRAIPF--GTMVAVCCICFFVILPLNLVG----TILGRNLSGQPNFPCRVNAVPRPIPEK 427
                 ||  |:|:|            :||    | | : |                  :|
Db        174 ----PFFLGSMLA-----------TIVGVRQTTSLVKQL-----------------DK 199

Qy        428 KWFMEPAVIVCLGGILPFGSIFIEMYFI-FTSFWAYKIYYVYGFMMLVLVILCIVTVCVT 486
              | :   ::|  ||   || : :  :|: ||  :|| |    ||::  |  | ::
Db        200 IWDLRKTLVVFGGG---FGFLVLLTFFVKFTYLFAYLI----GFLLASLAALAMILAA-- 250

Qy        487 IVCTYFLLNAEDYRWQ---WTSFLSAASTAIYVYMYSFYYYFFKTK-----------MY 531
                    :|: : :  |     |||:  | |:|:: : ||  | :            |
Db        251 -----RVLHEKTHHIQEPKIISFLADTSYAVYLFHWPFYIIFSQLTSNLLAVLLTLICSY 305

Qy        532 GLFQTSFY 539
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Db        306 GFASLSFY 313


RESULT 15
US-09-583-110-4773
; Sequence 4773, Application US/09583110
; Patent No. 6699703
; GENERAL INFORMATION:
;  APPLICANT:  Lynn Doucette-Stamm et al.
;  TITLE OF INVENTION:  Nucleic Acid and Amino Acid Sequences Relating to Streptococcus
;  TITLE OF INVENTION:  Pneumoniae for Diagnostics and Therapeutics
;  FILE REFERENCE:  PATH00-07A
;  CURRENT APPLICATION NUMBER: US/09/583,110
;  CURRENT FILING DATE:  2000-05-26
;  PRIOR APPLICATION NUMBER:  US 09/107,433
;  PRIOR FILING DATE:  1998-06-30
;  PRIOR APPLICATION NUMBER:  US 60/085,131
;  PRIOR FILING DATE:  1998-05-12
;  PRIOR APPLICATION NUMBER:  US 60/051,553
;  PRIOR FILING DATE:  1997-07-02
;  NUMBER OF SEQ ID NOS:  5322
; SEQ ID NO 4773
;   LENGTH: 605
;   TYPE: PRT
;   ORGANISM: Streptococcus pneumoniae
US-09-583-110-4773

  Query Match             4.1%;  Score 127;  DB 4;  Length 605;
  Best Local Similarity   19.8%;  Pred. No. 0.0015;
  Matches   73;  Conservative   60;  Mismatches  117;  Indels  118;  Gaps   17;

Qy        203 FFQHRIHWFSIFNSFMMVIFLVGLVSMILMRTLRKDYARYSKEEEMDDMDRDLGDEYG-- 260
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Db         64 FFRRR------FYRIVPPVVLMVLVTMPFTFLVRQDYV-----------AGIGGQIASV 105

Qy        261 -------WKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVIIVAMIEDLYTERGSMLS 313
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Qy        314 TAIFVYAATSPVNGYFGGSLYARQGGRRWIKQMFIGAFLIPAMVCGTAFFINFIAIYYHA 373
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Db        165 GMVFLLSAVAFLISFF--------------SMFIGSFLVTSY--SSVYFSSLTHVY--- 204

Qy        374 SRAIPF--GTMVAVCCICFFVILPLNLVG----TILGRNLSGQPNFPCRVNAVPRPIPEK 427
                 ||  |:|:|            :||    | | : |                  :|
Db        205 ----PFFLGSMLA-----------TIVGVRQTTSLVKQL-----------------DK 230

Qy        428 KWFMEPAVIVCLGGILPFGSIFIEMYFI-FTSFWAYKIYYVYGFMMLVLVILCIVTVCVT 486
              | :   ::|  ||   || : :  :|: ||  :|| |    ||::  |  | ::
Db        231 IWDLRKTLVVFGGG---FGFLVLLTFFVKFTYLFAYLI----GFLLASLAALAMILAA-- 281

Qy        487 IVCTYFLLNAEDYRWQ---WTSFLSAASTAIYVYMYSFYYYFFKTK-----------MY 531
                    :|: : :  |     |||:  | |:|:: : ||  | :            |
Db        282 -----RVLHEKTHHIQEPKIISFLADTSYAVYLFHWPFYIIFSQLTSNLLAVLLTLICSY 336

Qy        532 GLFQTSFY 539
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GenCore version 5.1.6

OM nucleic - nucleic search, using sw model

Run on: August 13, 2005, 20:00:12 ; Search time 1697.79 Seconds
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Perfect score: 1800
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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 7305758 seqs, 3244068913 residues

Total number of hits satisfying chosen parameters: 14611516

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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26: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Result No.	Score	% Query Match	Length	DB	ID	Description
	1	1800	100.0	1827	20	US-10-755-466-3	Sequence 3, Appli
	2	1800	100.0	2072	20	US-10-755-466-1	Sequence 1, Appli
	3	1800	100.0	3508	10	US-09-814-353-21837	Sequence 21837, A
	4	1800	100.0	4024	14	US-10-198-846-10005	Sequence 10005, A
	5	1794.4	99.7	3370	10	US-09-374-046A-25	Sequence 25, Appl
	6	1794.4	99.7	3370	18	US-10-616-263-25	Sequence 25, Appl
	7	1753	97.4	3076	9	US-09-915-582-29	Sequence 29, Appl
	8	1753	97.4	3076	16	US-10-277-802-29	Sequence 29, Appl
	9	1753	97.4	3076	21	US-10-896-972-29	Sequence 29, Appl
	10	1709	94.9	3389	15	US-10-205-219-122	Sequence 122, App
	11	1709	94.9	3389	21	US-10-956-157-2297	Sequence 2297, Ap
	12	1011.6	56.2	6197	17	US-10-062-674-1697	Sequence 1697, Ap
	13	716.4	39.8	1070	17	US-10-264-237-1414	Sequence 1414, Ap
	14	619.6	34.4	1867	9	US-09-915-582-13	Sequence 13, Appl
	15	619.6	34.4	1867	16	US-10-277-802-13	Sequence 13, Appl
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	18	581	32.3	2355	20	US-10-739-930-4365	Sequence 4365, Ap
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	21	567.8	31.5	2698	20	US-10-425-115-140919	Sequence 140919,
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	25	537.8	29.9	560	17	US-10-242-535A-2630	Sequence 2630, Ap
	26	537.8	29.9	560	18	US-10-085-783A-2630	Sequence 2630, Ap
	27	474.4	26.4	1535	20	US-10-425-115-21677	Sequence 21677, A
	28	462.4	25.7	2316	19	US-10-437-963-658	Sequence 658, App
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	30	409.6	22.8	497	11	US-09-969-034-1724	Sequence 1724, Ap
c	31	406.2	22.6	459	17	US-10-062-674-445	Sequence 445, App
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	35	300.8	16.7	2032	20	US-10-425-115-21679	Sequence 21679, A
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	37	294.8	16.4	1033	18	US-10-425-114-16392	Sequence 16392, A
	38	273.8	15.2	529	14	US-10-198-846-11456	Sequence 11456, A
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c	40	256.4	14.2	2176	18	US-10-424-599-31527	Sequence 31527, A
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	42	248.4	13.8	673	14	US-10-198-846-2790	Sequence 2790, Ap
	43	245.8	13.7	2101	18	US-10-425-114-3633	Sequence 3633, Ap
	44	244.2	13.6	3097	20	US-10-425-115-17630	Sequence 17630, A
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ALIGNMENTS

RESULT 1
US-10-755-466-3
; Sequence 3, Application US/10755466
; Publication No. US20040265854A1
; GENERAL INFORMATION:
; APPLICANT: HIDAKA , Jun et al.
; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING
; TITLE OF INVENTION: BINDING ACTIVITIES, AND THEIR USES
; FILE REFERENCE: 0020-4827P
; CURRENT APPLICATION NUMBER: US/10/755,466
; CURRENT FILING DATE: 2004-01-13
; PRIOR APPLICATION NUMBER: US/09/786,681
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 3
; LENGTH: 1827
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (11)..(1747)
US-10-755-466-3

Query Match 100.0%; Score 1800; DB 20; Length 1827;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1800; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCGCCGCGCTGTGGCTGCTGCTGCTGCTGCTGCCCCGGACCCGGGCGGACGAGCACGAAC 60
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RESULT 2
US-10-755-466-1
; Sequence 1, Application US/10755466
; Publication No. US20040265854A1
; GENERAL INFORMATION:
; APPLICANT: HIDAKA , Jun et al.
; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING L
; TITLE OF INVENTION: BINDING ACTIVITIES, AND THEIR USES
; FILE REFERENCE: 0020-4827P
; CURRENT APPLICATION NUMBER: US/10/755,466
; CURRENT FILING DATE: 2004-01-13
; PRIOR APPLICATION NUMBER: US/09/786,681
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1
; LENGTH: 2072
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (49)..(1794)
US-10-755-466-1

Query Match 100.0%; Score 1800; DB 20; Length 2072;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1800; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db     185 ATCGTCAAGAAACATATAAGTACTTTTCACTTCCATTCTGTGTGGGGTCAAAAAAAAGTA 244
Qy     181 TCAGTCATTACCATGAAACTCTGGGAGAAGCACTTCAAGGGGTTGAATTGGAATTTAGTG 240
Db     245 TCAGTCATTACCATGAAACTCTGGGAGAAGCACTTCAAGGGGTTGAATTGGAATTTAGTG 304
Qy     241 GTCTGGATATTAAATTTAAAGATGATGTGATGCCAGCCACTTACTGTGAAATTGATTTAG 300
Db     305 GTCTGGATATTAAATTTAAAGATGATGTGATGCCAGCCACTTACTGTGAAATTGATTTAG 364
Qy     301 ATAAAGAAAAGAGAGATGCATTTGTATATGCCATAAAAAATCATTACTGGTACCAGATGT 360
Db     365 ATAAAGAAAAGAGAGATGCATTTGTATATGCCATAAAAAATCATTACTGGTACCAGATGT 424
Qy     361 ACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAAGATT 420
Db     425 ACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAAGATT 484
Qy     421 ACTATCTTTGGACCTATAAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTTGATG 480
Db     485 ACTATCTTTGGACCTATAAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTTGATG 544
Qy     481 TTAATCTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATGTCAT 540
Db     545 TTAATCTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATGTCAT 604
Qy     541 ATTCAGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATATCTTG 600
Db     605 ATTCAGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATATCTTG 664
Qy     601 ATCCGTCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATGATGG 660
Db     665 ATCCGTCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATGATGG 724
Qy     661 TGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGATTATG 720
Db     725 TGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGATTATG 784
Qy     721 CTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAATATG 780
Db     785 CTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAATATG 844
Qy     781 GATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTTTCCT 840
Db     845 GATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTTTCCT 904
Qy     841 CTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTTGCAA 900
Db     905 CTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTTGCAA 964
Qy     901 TGATAGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTCTATG 960
Db     965 TGATAGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTCTATG 1024
Qy     961 CTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGAGGAA 1020
Db    1025 CTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGAGGAA 1084
Qy    1021 GGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGTGGCA 1080
Db    1085 GGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGTGGCA 1144
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Qy    1081 CTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCTTTTG 1140
Db    1145 CTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCTTTTG 1204
Qy    1141 GAACAATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCTTGTTG 1200
Db    1205 GAACAATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCTTGTTG 1264
Qy    1201 GTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAATGCTG 1260
Db    1265 GTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAATGCTG 1324
Qy    1261 TGCCTCGTCCTATACCGGAGAAAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGCCTGG 1320
Db    1325 TGCCTCGTCCTATACCGGAGAAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGCCTGG 1384
Qy    1321 GTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCTTTCT 1380
Db    1385 GTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCTTTCT 1444
Qy    1381 GGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTGTGCA 1440
Db    1445 GGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTGTGCA 1504
Qy    1441 TTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTACC 1500
Db    1505 TTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTACC 1564
Qy    1501 GGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATGTATT 1560
Db    1565 GGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATGTATT 1624
Qy    1561 CCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTTTACT 1620
Db    1625 CCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTTTACT 1684
Qy    1621 TTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATTGGTTACA 1680
Db    1685 TTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATTGGTTACA 1744
Qy    1681 TGGGAACAAGTGCCTTTGTCCGAAAAATCTATACTAATGTGAAAATTGACTAGAGACCCA 1740
Db    1745 TGGGAACAAGTGCCTTTGTCCGAAAAATCTATACTAATGTGAAAATTGACTAGAGACCCA 1804
Qy    1741 AGAAAACCTGGAACTTTGGATCAATTTCTTTTTCATAGGGGTGGAACTTGCACAGCAAAA 1800
Db    1805 AGAAAACCTGGAACTTTGGATCAATTTCTTTTTCATAGGGGTGGAACTTGCACAGCAAAA 1864
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RESULT 3
US-09-814-353-21837
; Sequence 21837, Application US/09814353
; Publication No. US20030165831A1
; GENERAL INFORMATION:
; APPLICANT: Lee, John
; APPLICANT: Thompson, Pamela
; APPLICANT: Lillie, James
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; TITLE OF INVENTION: THERAPY OF OVARIAN CANCER
; FILE REFERENCE: MRI-006B
; CURRENT APPLICATION NUMBER: US/09/814,353
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: US 60/191,031
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: US 60/207,124
; PRIOR FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: US 60/211,940
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: US 60/216,820
; PRIOR FILING DATE: 2000-07-07
; PRIOR APPLICATION NUMBER: US 60/220,661
; PRIOR FILING DATE: 2000-07-25

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;  PRIOR APPLICATION NUMBER: US 60/257,672
;  PRIOR FILING DATE: 2000-12-21
;  NUMBER OF SEQ ID NOS: 22037
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 21837
;   LENGTH: 3508
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: 1, 2, 3506, 3507, 3508
;   OTHER INFORMATION: n = A,T,C or G
US-09-814-353-21837

  Query Match             100.0%;  Score 1800;  DB 10;  Length 3508;
  Best Local Similarity   100.0%;  Pred. No. 0;
  Matches 1800;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCGCCGCGCTGTGGCTGCTGCTGCTGCTGCTGCCCCGGACCCGGGCGGACGAGCACGAAC 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         54 CCGCCGCGCTGTGGCTGCTGCTGCTGCTGCCCCGGACCCGGGCGGACGAGCACGAAC 113

Qy         61 ACACGTATCAAGATAAAGAGGAAGTTGTCTTATGGATGAATACTGTTGGGCCCTACCATA 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        114 ACACGTATCAAGATAAAGAGGAAGTTGTCTTATGGATGAATACTGTTGGGCCCTACCATA 173

Qy        121 ATCGTCAAGAAACATATAAGTACTTTTCACTTCCATTCTGTGTGGGGTCAAAAAAAAGTA 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        174 ATCGTCAAGAAACATATAAGTACTTTTCACTTCCATTCTGTGTGGGGTCAAAAAAAAGTA 233

Qy        181 TCAGTCATTACCATGAAACTCTGGGAGAAGCACTTCAAGGGGTTGAATTGGAATTTAGTG 240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        234 TCAGTCATTACCATGAAACTCTGGGAGAAGCACTTCAAGGGGTTGAATTGGAATTTAGTG 293

Qy        241 GTCTGGATATTAAATTTAAAGATGATGTGATGCCAGCCACTTACTGTGAAATTGATTTAG 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        294 GTCTGGATATTAAATTTAAAGATGATGTGATGCCAGCCACTTACTGTGAAATTGATTTAG 353

Qy        301 ATAAAGAAAAGAGAGATGCATTTGTATATGCCATAAAAAATCATTACTGGTACCAGATGT 360
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        354 ATAAAGAAAAGAGAGATGCATTTGTATATGCCATAAAAAATCATTACTGGTACCAGATGT 413

Qy        361 ACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAAGATT 420
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        414 ACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAAGATT 473

Qy        421 ACTATCTTTGGACCTATAAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTTGATG 480
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        474 ACTATCTTTGGACCTATAAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTTGATG 533

Qy        481 TTAATCTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATGTCAT 540
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        534 TTAATCTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATGTCAT 593

Qy        541 ATTCAGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATATCTTG 600
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        594 ATTCAGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATATCTTG 653

Qy        601 ATCCGTCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATGATGG 660
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        654 ATCCGTCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATGATGG 713

Qy        661 TGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGATTATG 720
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        714 TGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGATTATG 773

Qy        721 CTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAATATG 780
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        774 CTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAATATG 833

Qy        781 GATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTTTCCT 840
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        834 GATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTTTCCT 893

Qy        841 CTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTTGCAA 900
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        894 CTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTTGCAA 953

Qy        901 TGATAGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTCTATG 960
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        954 TGATAGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTCTATG 1013

Qy        961 CTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGAGGAA 1020
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1014 CTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGAGGAA 1073

Qy       1021 GGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGTGGCA 1080
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1074 GGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGTGGCA 1133

Qy       1081 CTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCTTTTG 1140
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1134 CTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCTTTTG 1193

Qy       1141 GAACAATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCTTGTTG 1200
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1194 GAACAATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCTTGTTG 1253

Qy       1201 GTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAATGCTG 1260
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1254 GTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAATGCTG 1313

Qy       1261 TGCCTCGTCCTATACCGGAGAAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGCCTGG 1320
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1314 TGCCTCGTCCTATACCGGAGAAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGCCTGG 1373

Qy       1321 GTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCTTTCT 1380
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1374 GTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCTTTCT 1433

Qy       1381 GGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTGTGCA 1440
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1434 GGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTGTGCA 1493

Qy       1441 TTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTACC 1500
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1494 TTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTACC 1553

Qy       1501 GGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATGTATT 1560
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1554 GGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATGTATT 1613

Qy       1561 CCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTTTACT 1620
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1614 CCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTTTACT 1673

Qy       1621 TTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATTGGTTACA 1680
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1674 TTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATTGGTTACA 1733

Qy       1681 TGGGAACAAGTGCCTTTGTCCGAAAAATCTATACTAATGTGAAAATTGACTAGAGACCCA 1740
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1734 TGGGAACAAGTGCCTTTGTCCGAAAAATCTATACTAATGTGAAAATTGACTAGAGACCCA 1793

Qy       1741 AGAAAACCTGGAACTTTGGATCAATTTCTTTTTCATAGGGGTGGAACTTGCACAGCAAAA 1800
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1794 AGAAAACCTGGAACTTTGGATCAATTTCTTTTTCATAGGGGTGGAACTTGCACAGCAAAA 1853

RESULT 4
US-10-198-846-10005
; Sequence 10005, Application US/10198846
; Publication No. US20030099974A1
; GENERAL INFORMATION:
;  APPLICANT: Lillie, James
;  APPLICANT:  Xu, Yongyao
```

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;  APPLICANT:  Wang, Youzhen
;  APPLICANT:  Steinmann, Kathleen
;  TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS
;  TITLE OF INVENTION:  FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
;  TITLE OF INVENTION:  THERAPY OF BREAST CANCER
;  FILE REFERENCE: MRI-049
;  CURRENT APPLICATION NUMBER: US/10/198,846
;  CURRENT FILING DATE:  2002-07-18
;  PRIOR APPLICATION NUMBER: 60/306,220
;  PRIOR FILING DATE: 2001-07-18
;  NUMBER OF SEQ ID NOS: 14084
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10005
;   LENGTH: 4024
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: 1, 2, 4021, 4022, 4023, 4024
;   OTHER INFORMATION: n = A,T,C or G
US-10-198-846-10005

  Query Match             100.0%;  Score 1800;  DB 14;  Length 4024;
  Best Local Similarity   100.0%;  Pred. No. 0;
  Matches 1800;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCGCCGCGCTGTGGCTGCTGCTGCTGCTGCTGCCCCGGACCCGGGCGGACGAGCACGAAC 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         54 CCGCCGCGCTGTGGCTGCTGCTGCTGCTGCCCCGGACCCGGGCGGACGAGCACGAAC 113

Qy         61 ACACGTATCAAGATAAAGAGGAAGTTGTCTTATGGATGAATACTGTTGGGCCCTACCATA 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        114 ACACGTATCAAGATAAAGAGGAAGTTGTCTTATGGATGAATACTGTTGGGCCCTACCATA 173

Qy        121 ATCGTCAAGAAACATATAAGTACTTTTCACTTCCATTCTGTGTGGGGTCAAAAAAAAGTA 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        174 ATCGTCAAGAAACATATAAGTACTTTTCACTTCCATTCTGTGTGGGGTCAAAAAAAAGTA 233

Qy        181 TCAGTCATTACCATGAAACTCTGGGAGAAGCACTTCAAGGGGTTGAATTGGAATTTAGTG 240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        234 TCAGTCATTACCATGAAACTCTGGGAGAAGCACTTCAAGGGGTTGAATTGGAATTTAGTG 293

Qy        241 GTCTGGATATTAAATTTAAAGATGATGTGATGCCAGCCACTTACTGTGAAATTGATTTAG 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        294 GTCTGGATATTAAATTTAAAGATGATGTGATGCCAGCCACTTACTGTGAAATTGATTTAG 353

Qy        301 ATAAAGAAAAGAGAGATGCATTTGTATATGCCATAAAAAATCATTACTGGTACCAGATGT 360
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        354 ATAAAGAAAAGAGAGATGCATTTGTATATGCCATAAAAAATCATTACTGGTACCAGATGT 413

Qy        361 ACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAAGATT 420
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        414 ACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAAGATT 473

Qy        421 ACTATCTTTGGACCTATAAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTTGATG 480
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        474 ACTATCTTTGGACCTATAAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTTGATG 533

Qy        481 TTAATCTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATGTCAT 540
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        534 TTAATCTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATGTCAT 593

Qy        541 ATTCAGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATATCTTG 600
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        594 ATTCAGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATATCTTG 653

Qy        601 ATCCGTCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATGATGG 660
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        654 ATCCGTCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATGATGG 713

Qy        661 TGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGATTATG 720
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        714 TGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGATTATG 773

Qy        721 CTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAATATG 780
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        774 CTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAATATG 833

Qy        781 GATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTTTCCT 840
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        834 GATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTTTCCT 893

Qy        841 CTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTTGCAA 900
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        894 CTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTTGCAA 953

Qy        901 TGATAGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTCTATG 960
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        954 TGATAGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTCTATG 1013

Qy        961 CTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGAGGAA 1020
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1014 CTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGAGGAA 1073

Qy       1021 GGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGTGGCA 1080
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1074 GGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGTGGCA 1133

Qy       1081 CTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCTTTTG 1140
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1134 CTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCTTTTG 1193

Qy       1141 GAACAATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCTTGTTG 1200
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1194 GAACAATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCTTGTTG 1253

Qy       1201 GTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAATGCTG 1260
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1254 GTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAATGCTG 1313

Qy       1261 TGCCTCGTCCTATACCGGAGAAAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGCCTGG 1320
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1314 TGCCTCGTCCTATACCGGAGAAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGCCTGG 1373

Qy       1321 GTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCTTTCT 1380
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1374 GTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCTTTCT 1433

Qy       1381 GGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTGTGCA 1440
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1434 GGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTGTGCA 1493

Qy       1441 TTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTACC 1500
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1494 TTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTACC 1553

Qy       1501 GGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATGTATT 1560
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1554 GGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATGTATT 1613

Qy       1561 CCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTTTACT 1620
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1614 CCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTTTACT 1673

Qy       1621 TTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATTGGTTACA 1680
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1674 TTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATTGGTTACA 1733

Qy       1681 TGGGAACAAGTGCCTTTGTCCGAAAAATCTATACTAATGTGAAAATTGACTAGAGACCCA 1740
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1734 TGGGAACAAGTGCCTTTGTCCGAAAAATCTATACTAATGTGAAAATTGACTAGAGACCCA 1793

Qy       1741 AGAAAACCTGGAACTTTGGATCAATTTCTTTTTCATAGGGGTGGAACTTGCACAGCAAAA 1800
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1794 AGAAAACCTGGAACTTTGGATCAATTTCTTTTTCATAGGGGTGGAACTTGCACAGCAAAA 1853
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RESULT 5
US-09-374-046A-25
; Sequence 25, Application US/09374046A
; Publication No. US20030096951A1
; GENERAL INFORMATION:
;  APPLICANT: Jacobs, Kenneth
;  APPLICANT: McCoy, John M.
;  APPLICANT: LaVallie, Edward R.
;  APPLICANT: Collins-Racie, Lisa A.
;  APPLICANT: Evans, Cheryl
;  APPLICANT: Merberg, David
;  APPLICANT: Treacy, Maurice
;  APPLICANT: Agostino, Michael J.
;  APPLICANT: Steininger II, Robert J.
;  APPLICANT: Spaulding, Vikki
;  APPLICANT: Wong, Gordon G.
;  APPLICANT: Clark, Hilary
;  APPLICANT: Fechtel, Kim
;  APPLICANT: Genetics Institute, Inc.
;  TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM
;  FILE REFERENCE: GI 6075-83A
;  CURRENT APPLICATION NUMBER: US/09/374,046A
;  CURRENT FILING DATE: 1999-08-13
;  NUMBER OF SEQ ID NOS: 240
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 25
;   LENGTH: 3370
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-374-046A-25

  Query Match             99.7%;  Score 1794.4;  DB 10;  Length 3370;
  Best Local Similarity   99.9%;  Pred. No. 0;
  Matches 1795;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          5 CGCGCTGTGGCTGCTGCTGCTGCTGCTGCCCCCGGACCCGGGCGGACGAGCACGAACACAC 64
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 CGCGCTGTGGCTGCTGCTGCTGCTGCTGCCCCCGGACCCGGGCGGACGAGCACGAACACAC 60

Qy         65 GTATCAAGATAAAGAGGAAGTTGTCTTATGGATGAATACTGTTGGGCCCTACCATAATCG 124
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 GTATCAAGATAAAGAGGAAGTTGTCTTATGGATGAATACTGTTGGGCCCTACCATAATCG 120

Qy        125 TCAAGAAACATATAAGTACTTTTCACTTCCATTCTGTGTGGGGTCAAAAAAAAGTATCAG 184
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 TCAAGAAACATATAAGTACTTTTCACTTCCATTCTGTGTGGGGTCAAAAAAAAGTATCAG 180

Qy        185 TCATTACCATGAAACTCTGGGAGAAGCACTTCAAGGGGTTGAATTGGAATTTAGTGGTCT 244
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 TCATTACCATGAAACTCTGGGAGAAGCACTTCAAGGGGTTGAATTGGAATTTAGTGGTCT 240

Qy        245 GGATATTAAATTTAAAGATGATGTGATGCCAGCCACTTACTGTGAAATTGATTTAGATAA 304
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 GGATATTAAATTTAAAGATGATGTGATGCCAGCCACTTACTGTGAAATTGATTTAGATAA 300

Qy        305 AGAAAAGAGAGATGCATTTGTATATGCCATAAAAAATCATTACTGGTACCAGATGTACAT 364
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        301 AGAAAAGAGAGATGCATTTGTATATGCCATAAAAAATCATTACTGGTACCAGATGTACAT 360

Qy        365 AGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAAGATTACTA 424
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        361 AGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAAGATTACTA 420

Qy        425 TCTTTGGACCTATAAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTTGATGTTAA 484
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        421 TCTTTGGACCTATAAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTTGATGTTAA 480

Qy        485 TCTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATGTCATATTC 544
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        481 TCTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATGTCATATTC 540

Qy        545 AGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATATCTTGATCC 604
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        541 AGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATATCTTGATCC 600

Qy        605 GTCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATGATGGTGAT 664
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        601 GTCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATGATGGTGAT 660

Qy        665 CTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGATTATGCTCG 724
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        661 CTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGATTATGCTCG 720

Qy        725 GTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAATATGGATG 784
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        721 GTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAATATGGATG 780

Qy        785 GAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTTTCCTCTCT 844
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        781 GAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTTTCCTCTCT 840

Qy        845 GATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTTGCAATGAT 904
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        841 GATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTTGCAATGAT 900

Qy        905 AGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTCTATGCTGC 964
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        901 AGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTCTATGCTGC 960

Qy        965 TACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGAGGAAGGAG 1024
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        961 TACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGAGGAAGGAG 1020

Qy       1025 ATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGTGGCACTGC 1084
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1021 ATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGTGGCACTGC 1080

Qy       1085 CTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCTTTTGGAAC 1144
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1081 CTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCTTTTGGAAC 1140

Qy       1145 AATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCTTGTTGGTAC 1204
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1141 AATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCTTGTTGGTAC 1200

Qy       1205 AATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAATGCTGTGCC 1264
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1201 AATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAATGCTGTGCC 1260

Qy       1265 TCGTCCTATACCGGAGAAAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGCCTGGGTGG 1324
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1261 TCGTCCTATACCGGAGAAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGCCTGGGTGG 1320

Qy       1325 AATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCTTTCTGGGC 1384
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1321 AATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCTTTCTGGGC 1380

Qy       1385 ATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTGTGCATTGT 1444
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1381 ATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTGTGCATTGT 1440

Qy       1445 GACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTACCGGTG 1504
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||| |||
Db       1441 GACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTACCCGTG 1500

Qy       1505 GCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATGTATTCCTT 1564
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1501 GCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATGTATTCCTT 1560

Qy       1565 TTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTTTACTTTGG 1624
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1561 TTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTTTACTTTGG 1620

Qy       1625 ATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATTGGTTACATGGG 1684
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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Db       1621 ATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATTGGTTACATGGG 1680

Qy       1685 AACAAGTGCCTTTGTCCGAAAAATCTATACTAATGTGAAAATTGACTAGAGACCCAAGAA 1744
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1681 AACAAGTGCCTTTGTCCGAAAAATCTATACTAATGTGAAAATTGACTAGAGACCCAAGAA 1740

Qy       1745 AACCTGGAACTTTGGATCAATTTCTTTTTCATAGGGGTGGAACTTGCACAGCAAAA 1800
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1741 AACCTGGAACTTTGGATCAATTTCTTTTTCATAGGGGTGGAACTTGCACAGCAAAA 1796


RESULT 6
US-10-616-263-25
; Sequence 25, Application US/10616263
; Publication No. US20040038276A1
; GENERAL INFORMATION:
;  APPLICANT: Jacobs, Kenneth
;  APPLICANT:  McCoy, John M.
;  APPLICANT:  LaVallie, Edward R.
;  APPLICANT:  Collins-Racie, Lisa A.
;  APPLICANT:  Evans, Cheryl
;  APPLICANT:  Merberg, David
;  APPLICANT:  Treacy, Maurice
;  APPLICANT:  Agostino, Michael J.
;  APPLICANT:  Steininger II, Robert J.
;  APPLICANT:  Spaulding, Vikki
;  APPLICANT:  Wong, Gordon G.
;  APPLICANT:  Clark, Hilary
;  APPLICANT:  Fechtel, Kim
;  APPLICANT:  Genetics Institute, Inc.
;  TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM
;  FILE REFERENCE: 00766.000103.5
;  CURRENT APPLICATION NUMBER: US/10/616,263
;  CURRENT FILING DATE:  2003-07-08
;  NUMBER OF SEQ ID NOS: 240
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 25
;   LENGTH: 3370
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-10-616-263-25

  Query Match             99.7%;  Score 1794.4;  DB 18;  Length 3370;
  Best Local Similarity   99.9%;  Pred. No. 0;
  Matches 1795;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy           5 CGCGCTGTGGCTGCTGCTGCTGCTGCTGCCCCGGACCCGGGCGGACGAGCACGAACACAC 64
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db           1 CGCGCTGTGGCTGCTGCTGCTGCTGCTGCCCCGGACCCGGGCGGACGAGCACGAACACAC 60

Qy          65 GTATCAAGATAAAGAGGAAGTTGTCTTATGGATGAATACTGTTGGGCCCTACCATAATCG 124
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          61 GTATCAAGATAAAGAGGAAGTTGTCTTATGGATGAATACTGTTGGGCCCTACCATAATCG 120

Qy         125 TCAAGAAACATATAAGTACTTTTCACTTCCATTCTGTGTGGGGTCAAAAAAAAGTATCAG 184
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         121 TCAAGAAACATATAAGTACTTTTCACTTCCATTCTGTGTGGGGTCAAAAAAAAGTATCAG 180

Qy         185 TCATTACCATGAAACTCTGGGAGAAGCACTTCAAGGGGTTGAATTGGAATTTAGTGGTCT 244
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         181 TCATTACCATGAAACTCTGGGAGAAGCACTTCAAGGGGTTGAATTGGAATTTAGTGGTCT 240

Qy         245 GGATATTAAATTTAAAGATGATGTGATGCCAGCCACTTACTGTGAAATTGATTTAGATAA 304
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         241 GGATATTAAATTTAAAGATGATGTGATGCCAGCCACTTACTGTGAAATTGATTTAGATAA 300

Qy         305 AGAAAAGAGAGATGCATTTGTATATGCCATAAAAAATCATTACTGGTACCAGATGTACAT 364
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         301 AGAAAAGAGAGATGCATTTGTATATGCCATAAAAAATCATTACTGGTACCAGATGTACAT 360

Qy         365 AGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAAGATTACTA 424
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         361 AGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAAGATTACTA 420

Qy         425 TCTTTGGACCTATAAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTTGATGTTAA 484
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         421 TCTTTGGACCTATAAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTTGATGTTAA 480

Qy         485 TCTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATGTCATATTC 544
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         481 TCTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATGTCATATTC 540

Qy         545 AGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATATCTTGATCC 604
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         541 AGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATATCTTGATCC 600

Qy         605 GTCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATGATGGTGAT 664
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         601 GTCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATGATGGTGAT 660

Qy         665 CTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGATTATGCTCG 724
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         661 CTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGATTATGCTCG 720

Qy         725 GTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAATATGGATG 784
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         721 GTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAATATGGATG 780

Qy         785 GAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTTTCCTCTCT 844
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         781 GAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTTTCCTCTCT 840

Qy         845 GATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTTGCAATGAT 904
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         841 GATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTTGCAATGAT 900

Qy         905 AGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTCTATGCTGC 964
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         901 AGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTCTATGCTGC 960

Qy         965 TACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGAGGAAGGAG 1024
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         961 TACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGAGGAAGGAG 1020

Qy        1025 ATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGTGGCACTGC 1084
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        1021 ATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGTGGCACTGC 1080

Qy        1085 CTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCTTTTGGAAC 1144
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        1081 CTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCTTTTGGAAC 1140

Qy        1145 AATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCTTGTTGGTAC 1204
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        1141 AATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCTTGTTGGTAC 1200

Qy        1205 AATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAATGCTGTGCC 1264
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        1201 AATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAATGCTGTGCC 1260

Qy        1265 TCGTCCTATACCGGAGAAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGCCTGGGTGG 1324
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        1261 TCGTCCTATACCGGAGAAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGCCTGGGTGG 1320

Qy        1325 AATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCTTTCTGGGC 1384
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        1321 AATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCTTTCTGGGC 1380

Qy        1385 ATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTGTGCATTGT 1444
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        1381 ATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTGTGCATTGT 1440

Qy        1445 GACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTACCGGTG 1504
               |||||||||||||||||||||||||||||||||||||||||||||||||||||||||| |||
Db        1441 GACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTACCCGTG 1500
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Qy       1505 GCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATGTATTCCTT 1564
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1501 GCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATGTATTCCTT 1560

Qy       1565 TTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTTTACTTTGG 1624
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1561 TTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTTTACTTTGG 1620

Qy       1625 ATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATTGGTTACATGGG 1684
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1621 ATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATTGGTTACATGGG 1680

Qy       1685 AACAAGTGCCTTTGTCCGAAAAATCTATACTAATGTGAAAATTGACTAGAGACCCAAGAA 1744
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1681 AACAAGTGCCTTTGTCCGAAAAATCTATACTAATGTGAAAATTGACTAGAGACCCAAGAA 1740

Qy       1745 AACCTGGAACTTTGGATCAATTTCTTTTTCATAGGGGTGGAACTTGCACAGCAAAA 1800
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1741 AACCTGGAACTTTGGATCAATTTCTTTTTCATAGGGGTGGAACTTGCACAGCAAAA 1796


RESULT 7
US-09-915-582-29
; Sequence 29, Application US/09915582
; Patent No. US20020120103A1
; GENERAL INFORMATION:
;  APPLICANT: Rosen et al.
;  TITLE OF INVENTION: 17 Human Secreted Proteins
;  FILE REFERENCE: PS723P1
;  CURRENT APPLICATION NUMBER: US/09/915,582
;  CURRENT FILING DATE:  2001-07-27
;  PRIOR APPLICATION NUMBER: PCT/US01/01431
;  PRIOR FILING DATE: 2001-01-17
;  PRIOR APPLICATION NUMBER: 60/179,065
;  PRIOR FILING DATE: 2000-01-31
;  PRIOR APPLICATION NUMBER: 60/180,628
;  PRIOR FILING DATE: 2000-02-04
;  PRIOR APPLICATION NUMBER: 60/231,968
;  PRIOR FILING DATE: 2000-09-12
;  NUMBER OF SEQ ID NOS: 97
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 29
;   LENGTH: 3076
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: SITE
;   LOCATION: (3064)
;   OTHER INFORMATION: n equals a,t,g, or c
US-09-915-582-29

  Query Match             97.4%;  Score 1753;  DB 9;  Length 3076;
  Best Local Similarity   98.8%;  Pred. No. 0;
  Matches 1762;  Conservative    3;  Mismatches   18;  Indels    0;  Gaps    0;

Qy         18 CTGCTGCTGCTGCTGCCCCCGGACCCGGGCGGACGAGCACGAACACACGTATCAAGATAAA 77
              |||| | | | | |       ||||||  |||:  | ||::| ||||||||||||||||
Db         13 CTGCAGGTACCGGTCCGGAATTCCCGGGTCGACSCACGCGWMCGCACGTATCAAGATAAA 72

Qy         78 GAGGAAGTTGTCTTATGGATGAATACTGTTGGGCCCTACCATAATCGTCAAGAAACATAT 137
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         73 GAGGAAGTTGTCTTATGGATGAATACTGTTGGGCCCTACCATAATCGTCAAGAAACATAT 132

Qy        138 AAGTACTTTTCACTTCCATTCTGTGTGGGGTCAAAAAAAAGTATCAGTCATTACCATGAA 197
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        133 AAGTACTTTTCACTTCCATTCTGTGTGGGGTCAAAAAAAAGTATCAGTCATTACCATGAA 192

Qy        198 ACTCTGGGAGAAGCACTTCAAGGGGTTGAATTGGAATTTAGTGGTCTGGATATTAAATTT 257
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        193 ACTCTGGGAGAAGCACTTCAAGGGGTTGAATTGGAATTTAGTGGTCTGGATATTAAATTT 252

Qy        258 AAAGATGATGTGATGCCAGCCACTTACTGTGAAATTGATTTAGATAAAGAAAAGAGAGAT 317
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Db        253 AAAGATGATGTGATGCCAGCCACTTACTGTGAAATTGATTTAGATAAAGAAAAGAGAGAT 312

Qy        318 GCATTTGTATATGCCATAAAAAATCATTACTGGTACCAGATGTACATAGATGATTTACCA 377
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        313 GCATTTGTATATGCCATAAAAAATCATTACTGGTACCAGATGTACATAGATGATTTACCA 372

Qy        378 ATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAAGATTACTATCTTTGGACCTAT 437
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        373 ATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAAGATTACTATCTTTGGACCTAT 432

Qy        438 AAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTTGATGTTAATCTAACTAGTGAA 497
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        433 AAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTTGATGTTAATCTAACTAGTGAA 492

Qy        498 GGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATGTCATATTCAGTAAAATGGAAA 557
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        493 GGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATGTCATATTCAGTAAAATGGAAA 552

Qy        558 AAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATATCTTGATCCGTCCTTTTTTCAA 617
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        553 AAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATATCTTGATCCGTCCTTTTTTCAA 612

Qy        618 CATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATGATGGTGATCTTCTTGGTGGGC 677
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        613 CATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATGATGGTGATCTTCTTGGTGGGC 672

Qy        678 TTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGATTATGCTCGGTACAGTAAAGAG 737
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        673 TTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGATTATGCTCGGTACAGTAAAGAG 732

Qy        738 GAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAATATGGATGGAAACAGGTGCAT 797
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        733 GAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAATATGGATGGAAACAGGTGCAT 792

Qy        798 GGAGATGTATTTAGACCATCAAGTCACCCACTGATATTTTCCTCTCTGATTGGTTCTGGA 857
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        793 GGAGATGTATTTAGACCATCAAGTCACCCACTGATATTTTCCTCTCTGATTGGTTCTGGA 852

Qy        858 TGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTTGCAATGATAGAAGATTTATAT 917
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        853 TGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTTGCAATGATAGAAGATTTATAT 912

Qy        918 ACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTCTATGCTGCTACGTCTCCAGTG 977
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        913 ACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTCTATGCTGCTACGTCTCCAGTG 972

Qy        978 AATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGAGGAAGGAGATGGATAAAGCAG 1037
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        973 AATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGAGGAAGGAGATGGATAAAGCAG 1032

Qy       1038 ATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGTGGCACTGCCTTCTTCATCAAT 1097
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1033 ATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGTGGCACTGCCTTCTTCATCAAT 1092

Qy       1098 TTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCTTTTGGAACAATGGTGGCCGTT 1157
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1093 TTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCTTTTGGAACAATGGTGGCCGTT 1152

Qy       1158 TGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCTTGTTGGTACAATACTTGGCCGA 1217
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1153 TGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCTTGTTGGTACAATACTTGGCCGA 1212

Qy       1218 AATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAATGCTGTGCCTCGTCCTATACCG 1277
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1213 AATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAATGCTGTGCCTCGTCCTATACCG 1272

Qy       1278 GAGAAAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGCCTGGGTGGAATTTTACCTTTT 1337
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1273 GAGAAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGCCTGGGTGGAATTTTACCTTTT 1332

Qy       1338 GGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCTTTCTGGGCATATAAGATCTAT 1397
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1333 GGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCTTTCTGGGCATATAAGATCTAT 1392
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Qy       1398 TATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTGTGCATTGTGACTGTCTGTGTG 1457
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1393 TATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTGTGCATTGTGACTGTCTGTGTG 1452

Qy       1458 ACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTACCGGTGGCAATGGACAAGT 1517
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1453 ACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTACCGGTGGCAATGGACAAGT 1512

Qy       1518 TTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATGTATTCCTTTTACTACTATTTT 1577
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1513 TTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATGTATTCCTTTTACTACTATTTT 1572

Qy       1578 TTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTTTACTTTGGATATATGGCGGTA 1637
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1573 TTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTTTACTTTGGATATATGGCGGTA 1632

Qy       1638 TTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATTGGTTACATGGGAACAAGTGCCTTT 1697
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1633 TTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATTGGTTACATGGGAACAAGTGCCTTT 1692

Qy       1698 GTCCGAAAAATCTATACTAATGTGAAAATTGACTAGAGACCCAAGAAAACCTGGAACTTT 1757
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1693 GTCCGAAAAATCTATACTAATGTGAAAATTGACTAGAGACCCAAGAAAACCTGGAACTTT 1752

Qy       1758 GGATCAATTTCTTTTTCATAGGGGTGGAACTTGCACAGCAAAA 1800
             |||||||||||||||||||||||||||||||||||||||||||||
Db       1753 GGATCAATTTCTTTTTCATAGGGGTGGAACTTGCACAGCAAAA 1795
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RESULT 8
US-10-277-802-29
; Sequence 29, Application US/10277802
; Publication No. US20030190707A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 17 Human Secreted Proteins
; FILE REFERENCE: PS723P1
; CURRENT APPLICATION NUMBER: US/10/277,802
; CURRENT FILING DATE: 2002-10-23
; PRIOR APPLICATION NUMBER: 09/915,582
; PRIOR FILING DATE: 2001-07-27
; PRIOR APPLICATION NUMBER: PCT/US01/01431
; PRIOR FILING DATE: 2001-01-17
; PRIOR APPLICATION NUMBER: 60/179,065
; PRIOR FILING DATE: 2000-01-31
; PRIOR APPLICATION NUMBER: 60/180,628
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: 60/231,968
; PRIOR FILING DATE: 2000-09-12
; NUMBER OF SEQ ID NOS: 97
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 29
; LENGTH: 3076
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (3064)
; OTHER INFORMATION: n equals a,t,g, or c
US-10-277-802-29

Query Match 97.4%; Score 1753; DB 16; Length 3076;
Best Local Similarity 98.8%; Pred. No. 0;
Matches 1762; Conservative 3; Mismatches 18; Indels 0; Gaps 0;

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Qy         18 CTGCTGCTGCTGCTGCCCCGGACCCGGGCGGACGAGCACGAACACACGTATCAAGATAAA 77
              |||| | | | | |      ||||||  |||:  | ||::| ||||||||||||||||||
Db         13 CTGCAGGTACCGGTCCGGAATTCCCGGGTCGACSCACGCGWMCGCACGTATCAAGATAAA 72

Qy         78 GAGGAAGTTGTCTTATGGATGAATACTGTTGGGCCCTACCATAATCGTCAAGAAACATAT 137
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         73 GAGGAAGTTGTCTTATGGATGAATACTGTTGGGCCCTACCATAATCGTCAAGAAACATAT 132
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Qy        138 AAGTACTTTTCACTTCCATTCTGTGTGGGGTCAAAAAAAAGTATCAGTCATTACCATGAA 197
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        133 AAGTACTTTTCACTTCCATTCTGTGTGGGGTCAAAAAAAAGTATCAGTCATTACCATGAA 192

Qy        198 ACTCTGGGAGAAGCACTTCAAGGGGTTGAATTGGAATTTAGTGGTCTGGATATTAAATTT 257
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        193 ACTCTGGGAGAAGCACTTCAAGGGGTTGAATTGGAATTTAGTGGTCTGGATATTAAATTT 252

Qy        258 AAAGATGATGTGATGCCAGCCACTTACTGTGAAATTGATTTAGATAAAGAAAAGAGAGAT 317
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        253 AAAGATGATGTGATGCCAGCCACTTACTGTGAAATTGATTTAGATAAAGAAAAGAGAGAT 312

Qy        318 GCATTTGTATATGCCATAAAAAATCATTACTGGTACCAGATGTACATAGATGATTTACCA 377
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        313 GCATTTGTATATGCCATAAAAAATCATTACTGGTACCAGATGTACATAGATGATTTACCA 372

Qy        378 ATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAAGATTACTATCTTTGGACCTAT 437
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        373 ATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAAGATTACTATCTTTGGACCTAT 432

Qy        438 AAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTTGATGTTAATCTAACTAGTGAA 497
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        433 AAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTTGATGTTAATCTAACTAGTGAA 492

Qy        498 GGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATGTCATATTCAGTAAAATGGAAA 557
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        493 GGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATGTCATATTCAGTAAAATGGAAA 552

Qy        558 AAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATATCTTGATCCGTCCTTTTTTCAA 617
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        553 AAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATATCTTGATCCGTCCTTTTTTCAA 612

Qy        618 CATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATGATGGTGATCTTCTTGGTGGGC 677
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        613 CATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATGATGGTGATCTTCTTGGTGGGC 672

Qy        678 TTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGATTATGCTCGGTACAGTAAAGAG 737
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        673 TTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGATTATGCTCGGTACAGTAAAGAG 732

Qy        738 GAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAATATGGATGGAAACAGGTGCAT 797
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        733 GAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAATATGGATGGAAACAGGTGCAT 792

Qy        798 GGAGATGTATTTAGACCATCAAGTCACCCACTGATATTTTCCTCTCTGATTGGTTCTGGA 857
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        793 GGAGATGTATTTAGACCATCAAGTCACCCACTGATATTTTCCTCTCTGATTGGTTCTGGA 852

Qy        858 TGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTTGCAATGATAGAAGATTTATAT 917
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Db        853 TGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTTGCAATGATAGAAGATTTATAT 912

Qy        918 ACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTCTATGCTGCTACGTCTCCAGTG 977
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Db        913 ACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTCTATGCTGCTACGTCTCCAGTG 972

Qy        978 AATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGAGGAAGGAGATGGATAAAGCAG 1037
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        973 AATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGAGGAAGGAGATGGATAAAGCAG 1032

Qy       1038 ATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGTGGCACTGCCTTCTTCATCAAT 1097
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1033 ATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGTGGCACTGCCTTCTTCATCAAT 1092

Qy       1098 TTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCTTTTGGAACAATGGTGGCCGTT 1157
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1093 TTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCTTTTGGAACAATGGTGGCCGTT 1152

Qy       1158 TGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCTTGTTGGTACAATACTTGGCCGA 1217
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1153 TGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCTTGTTGGTACAATACTTGGCCGA 1212
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Qy       1218 AATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAATGCTGTGCCTCGTCCTATACCG 1277
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1213 AATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAATGCTGTGCCTCGTCCTATACCG 1272

Qy       1278 GAGAAAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGCCTGGGTGGAATTTTACCTTTT 1337
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1273 GAGAAAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGCCTGGGTGGAATTTTACCTTTT 1332

Qy       1338 GGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCTTTCTGGGCATATAAGATCTAT 1397
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1333 GGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCTTTCTGGGCATATAAGATCTAT 1392

Qy       1398 TATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTGTGCATTGTGACTGTCTGTGTG 1457
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1393 TATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTGTGCATTGTGACTGTCTGTGTG 1452

Qy       1458 ACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTACCGGTGGCAATGGACAAGT 1517
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1453 ACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTACCGGTGGCAATGGACAAGT 1512

Qy       1518 TTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATGTATTCCTTTTACTACTATTTT 1577
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1513 TTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATGTATTCCTTTTACTACTATTTT 1572

Qy       1578 TTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTTTACTTTGGATATATGGCGGTA 1637
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1573 TTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTTTACTTTGGATATATGGCGGTA 1632

Qy       1638 TTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATTGGTTACATGGGAACAAGTGCCTTT 1697
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1633 TTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATTGGTTACATGGGAACAAGTGCCTTT 1692

Qy       1698 GTCCGAAAAATCTATACTAATGTGAAAATTGACTAGAGACCCAAGAAAACCTGGAACTTT 1757
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1693 GTCCGAAAAATCTATACTAATGTGAAAATTGACTAGAGACCCAAGAAAACCTGGAACTTT 1752

Qy       1758 GGATCAATTTCTTTTTCATAGGGGTGGAACTTGCACAGCAAAA 1800
             |||||||||||||||||||||||||||||||||||||||||||||
Db       1753 GGATCAATTTCTTTTTCATAGGGGTGGAACTTGCACAGCAAAA 1795
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RESULT 9
US-10-896-972-29
; Sequence 29, Application US/10896972
; Publication No. US20050032168A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 17 Human Secreted Proteins
; FILE REFERENCE: PS723P1
; CURRENT APPLICATION NUMBER: US/10/896,972
; CURRENT FILING DATE: 2004-07-23
; PRIOR APPLICATION NUMBER: US/09/915,582
; PRIOR FILING DATE: 2001-07-27
; PRIOR APPLICATION NUMBER: PCT/US01/01431
; PRIOR FILING DATE: 2001-01-17
; PRIOR APPLICATION NUMBER: 60/179,065
; PRIOR FILING DATE: 2000-01-31
; PRIOR APPLICATION NUMBER: 60/180,628
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: 60/231,968
; PRIOR FILING DATE: 2000-09-12
; NUMBER OF SEQ ID NOS: 97
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 29
; LENGTH: 3076
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (3064)
; OTHER INFORMATION: n equals a,t,g, or c
US-10-896-972-29

Query Match 97.4%; Score 1753; DB 21; Length 3076;
Best Local Similarity 98.8%; Pred. No. 0;
Matches 1762; Conservative 3; Mismatches 18; Indels 0; Gaps 0;

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Qy         18 CTGCTGCTGCTGCTGCCCCCGGACCCGGGCGGACGAGCACGAACACACGTATCAAGATAAA 77
              |||| | | | | |      ||||||  |||:  | ||::| ||||||||||||||||
Db         13 CTGCAGGTACCGGTCCGGAATTCCCGGGTCGACSCACGCGWMCGCACGTATCAAGATAAA 72

Qy         78 GAGGAAGTTGTCTTATGGATGAATACTGTTGGGCCCTACCATAATCGTCAAGAAACATAT 137
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         73 GAGGAAGTTGTCTTATGGATGAATACTGTTGGGCCCTACCATAATCGTCAAGAAACATAT 132

Qy        138 AAGTACTTTTCACTTCCATTCTGTGTGGGGTCAAAAAAAAGTATCAGTCATTACCATGAA 197
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        133 AAGTACTTTTCACTTCCATTCTGTGTGGGGTCAAAAAAAAGTATCAGTCATTACCATGAA 192

Qy        198 ACTCTGGGAGAAGCACTTCAAGGGGTTGAATTGGAATTTAGTGGTCTGGATATTAAATTT 257
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        193 ACTCTGGGAGAAGCACTTCAAGGGGTTGAATTGGAATTTAGTGGTCTGGATATTAAATTT 252

Qy        258 AAAGATGATGTGATGCCAGCCACTTACTGTGAAATTGATTTAGATAAAGAAAAGAGAGAT 317
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        253 AAAGATGATGTGATGCCAGCCACTTACTGTGAAATTGATTTAGATAAAGAAAAGAGAGAT 312

Qy        318 GCATTTGTATATGCCATAAAAAATCATTACTGGTACCAGATGTACATAGATGATTTACCA 377
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        313 GCATTTGTATATGCCATAAAAAATCATTACTGGTACCAGATGTACATAGATGATTTACCA 372

Qy        378 ATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAAGATTACTATCTTTGGACCTAT 437
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        373 ATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAAGATTACTATCTTTGGACCTAT 432

Qy        438 AAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTTGATGTTAATCTAACTAGTGAA 497
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        433 AAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTTGATGTTAATCTAACTAGTGAA 492

Qy        498 GGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATGTCATATTCAGTAAAATGGAAA 557
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        493 GGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATGTCATATTCAGTAAAATGGAAA 552

Qy        558 AAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATATCTTGATCCGTCCTTTTTTCAA 617
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        553 AAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATATCTTGATCCGTCCTTTTTTCAA 612

Qy        618 CATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATGATGGTGATCTTCTTGGTGGGC 677
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        613 CATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATGATGGTGATCTTCTTGGTGGGC 672

Qy        678 TTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGATTATGCTCGGTACAGTAAAGAG 737
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        673 TTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGATTATGCTCGGTACAGTAAAGAG 732

Qy        738 GAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAATATGGATGGAAACAGGTGCAT 797
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        733 GAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAATATGGATGGAAACAGGTGCAT 792

Qy        798 GGAGATGTATTTAGACCATCAAGTCACCCACTGATATTTTCCTCTCTGATTGGTTCTGGA 857
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        793 GGAGATGTATTTAGACCATCAAGTCACCCACTGATATTTTCCTCTCTGATTGGTTCTGGA 852

Qy        858 TGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTTGCAATGATAGAAGATTTATAT 917
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        853 TGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTTGCAATGATAGAAGATTTATAT 912

Qy        918 ACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTCTATGCTGCTACGTCTCCAGTG 977
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        913 ACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTCTATGCTGCTACGTCTCCAGTG 972

Qy        978 AATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGAGGAAGGAGATGGATAAAGCAG 1037
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        973 AATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGAGGAAGGAGATGGATAAAGCAG 1032

Qy       1038 ATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGTGGCACTGCCTTCTTCATCAAT 1097
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Db       1033 ATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGTGGCACTGCCTTCTTCATCAAT 1092

Qy       1098 TTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCTTTTGGAACAATGGTGGCCGTT 1157

Db       1093 TTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCTTTTGGAACAATGGTGGCCGTT 1152

Qy       1158 TGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCTTGTTGGTACAATACTTGGCCGA 1217

Db       1153 TGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCTTGTTGGTACAATACTTGGCCGA 1212

Qy       1218 AATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAATGCTGTGCCTCGTCCTATACCG 1277

Db       1213 AATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAATGCTGTGCCTCGTCCTATACCG 1272

Qy       1278 GAGAAAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGCCTGGGTGGAATTTTACCTTTT 1337

Db       1273 GAGAAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGCCTGGGTGGAATTTTACCTTTT 1332

Qy       1338 GGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCTTTCTGGGCATATAAGATCTAT 1397

Db       1333 GGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCTTTCTGGGCATATAAGATCTAT 1392

Qy       1398 TATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTGTGCATTGTGACTGTCTGTGTG 1457

Db       1393 TATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTGTGCATTGTGACTGTCTGTGTG 1452

Qy       1458 ACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTACCGGTGGCAATGGACAAGT 1517

Db       1453 ACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTACCGGTGGCAATGGACAAGT 1512

Qy       1518 TTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATGTATTCCTTTTACTACTATTTT 1577

Db       1513 TTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATGTATTCCTTTTACTACTATTTT 1572

Qy       1578 TTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTTTACTTTGGATATATGGCGGTA 1637

Db       1573 TTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTTTACTTTGGATATATGGCGGTA 1632

Qy       1638 TTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATTGGTTACATGGGAACAAGTGCCTTT 1697

Db       1633 TTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATTGGTTACATGGGAACAAGTGCCTTT 1692

Qy       1698 GTCCGAAAAATCTATACTAATGTGAAAATTGACTAGAGACCCAAGAAAACCTGGAACTTT 1757

Db       1693 GTCCGAAAAATCTATACTAATGTGAAAATTGACTAGAGACCCAAGAAAACCTGGAACTTT 1752

Qy       1758 GGATCAATTTCTTTTTCATAGGGGTGGAACTTGCACAGCAAAA 1800

Db       1753 GGATCAATTTCTTTTTCATAGGGGTGGAACTTGCACAGCAAAA 1795
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RESULT 10
US-10-205-219-122
; Sequence 122, Application US/10205219
; Publication No. US20030138803A1
; GENERAL INFORMATION:
;  APPLICANT: Warner-Lambert Company
;  APPLICANT:  Lee, Kevin
;  APPLICANT:  Dixon, Alistair
;  APPLICANT:  Brooksbank, Robert
;  APPLICANT:  Pinnock, Robert
;  TITLE OF INVENTION: Identification and Use of Molecules Implicated in Pain
;  FILE REFERENCE: WL-A-018200
;  CURRENT APPLICATION NUMBER: US/10/205,219
;  CURRENT FILING DATE:  2002-07-24
;  PRIOR APPLICATION NUMBER: GB 0118354.0
;  PRIOR FILING DATE: 2001-07-27
;  NUMBER OF SEQ ID NOS: 197
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 122
;   LENGTH: 3389
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   OTHER INFORMATION: EP70-P-iso
US-10-205-219-122

  Query Match             94.9%;  Score 1709;  DB 15;  Length 3389;
  Best Local Similarity   99.0%;  Pred. No. 0;
  Matches 1783;  Conservative    0;  Mismatches   10;  Indels    8;  Gaps    6;

Qy          1 CCGCCGCGCTGTGGCTGCTGCTGCTGCTGCTGCCCCGGACCCGGGCGGACGAGCACGAAC 60

Db         54 CCGCCGCGCTGTGGCTGCTGCTGCTGCTGCTGCCCCGGACCCGGGCGGACGAGCACGAAC 113

Qy         61 ACACGTATCAAGATAAAGAGGAAGTTGTCTTATGGATGAATACTGTTGGGCCCTACCATA 120

Db        114 ACACGTATCAAGATAAAGAGGAAGTTGTCTTATGGATGAATACTGTTGGGCCCTACCATA 173

Qy        121 ATCGTCAAGAAACATATAAGTACTTTTCACTTCCATTCTGTGTGGGGTCAAAAAAAAGTA 180

Db        174 ATCGTCAAGAAACATATAAGTACTTTTCACTTCCATTCTGTGTGGGGTCAAAAAAAAGTA 233

Qy        181 TCAGTCATTACCATGAAACTCTGGGAGAAGCACTTCAAGGGGTTGAATTGGAATTTAGTG 240

Db        234 TCAGTCATTACCATGAAACTCTGGGAGAAGCACTTCAAGGGGTTGAATTGGAATTTAGTG 293

Qy        241 GTCTGGATATTAAATTTAAAGATGATGTGATGCCAGCCACTTACTGTGAAATTGATTTAG 300

Db        294 GTCTGGATATTAAATTTAAAGATGATGTGATGCCAGCCACTTACTGTGAAATTGATTTAG 353

Qy        301 ATAAAGAAAAGAGAGATGCATTTGTATATGCCATAAAAAATCATTACTGGTACCAGATGT 360

Db        354 ATAAAGAAAAGAGAGATGCATTTGTATATGCCATAAAAAATCATTACTGGTACCAGATGT 413

Qy        361 ACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAAGATT 420

Db        414 ACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAAGATT 473

Qy        421 ACTATCTTTGGACCTATAAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTTGATG 480

Db        474 ACTATCTTTGGACCTATAAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTTGATG 533

Qy        481 TTAATCTAACTAGTGAAGGAAAGGTGAAACT-GGTTCCAAATACTAAAATCCAGATGTCA 539

Db        534 TTAATCTAACTAGTGAAGGAAAGGTGAAACTGGGTTCCAAATACTATAATCCAGATGTCA 593

Qy        540 TATTCAGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATATCTT 599

Db        594 TATTCAGTAAAATGG-AAAAGTCAGATGTGAAATTTGAAGATCGATTTGAC-AATATCTT 651

Qy        600 GATCCGTCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATGATG 659

Db        652 GATC--GTCCTTTTTTCACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATGATG 709

Qy        660 GTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGATTAT 719

Db        710 GTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGATTAT 769

Qy        720 GCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAATAT 779

Db        770 GCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAATAT 829

Qy        780 GGATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTTTCC 839

Db        830 GGATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTTTCC 889

Qy        840 TCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTTGCA 899

Db        890 TCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTTGCA 949

Qy        900 ATGATAGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTCTAT 959

Db        950 ATGATAGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTCTAT 1009
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Qy        960 GCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGAGGA 1019
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1010 GCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGAGGA 1069

Qy       1020 AGGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGTGGC 1079
              ||||||||||||||||||||||||||||||||||||||||||||||||  |    ||
Db       1070 AGGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATG--GGTGTGC 1127

Qy       1080 ACTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCTTTT 1139
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1128 ACTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCTTTT 1187

Qy       1140 GGAACAATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCTTGTT 1199
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1188 GGAACAATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCTTGTT 1247

Qy       1200 GGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAATGCT 1259
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1248 GGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAATGCT 1307

Qy       1260 GTGCCTCGTCCTATACCGGAGAAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGCCTG 1319
              |||||||||||||||||||||||||||||||||| ||||||||||||||||||||||||
Db       1308 GTGCCTCGTCCTATACCGGAGAAAAAATGGTTCATGGAG-CTGCGGTTATTGTTTGCCTG 1366

Qy       1320 GGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCTTTC 1379
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1367 GGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCTTTC 1426

Qy       1380 TGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTGTGC 1439
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1427 TGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTGTGC 1486

Qy       1440 ATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTAC 1499
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1487 ATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTAC 1546

Qy       1500 CGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATGTAT 1559
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1547 CGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATGTAT 1606

Qy       1560 TCCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTTTAC 1619
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1607 TCCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTTTAC 1666

Qy       1620 TTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATTGGTTAC 1679
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1667 TTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATTGGTTAC 1726

Qy       1680 ATGGGAACAAGTGCCTTTGTCCGAAAAATCTATACTAATGTGAAAATTGACTAGAGACCC 1739
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1727 ATGGGAACAAGTGCCTTTGTCCGAAAAATCTATACTAATGTGAAAATTGACTAGAGACCC 1786

Qy       1740 AAGAAAACCTGGAACTTTGGATCAATTTCTTTTTCATAGGGGTGGAACTTGCACAGCAAA 1799
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1787 AAGAAAACCTGGAACTTTGGATCAATTTCTTTTTCATAGGGGTGGAACTTGCACAGCAAA 1846

Qy       1800 A 1800
              |
Db       1847 A 1847


RESULT 11
US-10-956-157-2297
; Sequence 2297, Application US/10956157
; Publication No. US20050118625A1
; GENERAL INFORMATION:
;  APPLICANT: Wyeth
;  APPLICANT:  Mounts, William
;  TITLE OF INVENTION: NUCLEIC ACID ARRAYS FOR DETECTING GENE EXPRESSION ASSOCIATED WITH
;  TITLE OF INVENTION:  HUMAN OSTEOARTHRITIS AND HUMAN PROTEASES
;  FILE REFERENCE: 031896-043000 (AM 101081)
;  CURRENT APPLICATION NUMBER: US/10/956,157
;  CURRENT FILING DATE:  2004-10-04
;  NUMBER OF SEQ ID NOS: 319805
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2297
;   LENGTH: 3389
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-10-956-157-2297

  Query Match             94.9%;  Score 1709;  DB 21;  Length 3389;
  Best Local Similarity   99.0%;  Pred. No. 0;
  Matches 1783;  Conservative    0;  Mismatches   10;  Indels    8;  Gaps    6;

Qy          1 CCGCCGCGCTGTGGCTGCTGCTGCTGCTGCTGCCCCGGACCCGGGCGGACGAGCACGAAC 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         54 CCGCCGCGCTGTGGCTGCTGCTGCTGCTGCTGCCCCGGACCCGGGCGGACGAGCACGAAC 113

Qy         61 ACACGTATCAAGATAAAGAGGAAGTTGTCTTATGGATGAATACTGTTGGGCCCTACCATA 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        114 ACACGTATCAAGATAAAGAGGAAGTTGTCTTATGGATGAATACTGTTGGGCCCTACCATA 173

Qy        121 ATCGTCAAGAAACATATAAGTACTTTTCACTTCCATTCTGTGTGGGGTCAAAAAAAAGTA 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        174 ATCGTCAAGAAACATATAAGTACTTTTCACTTCCATTCTGTGTGGGGTCAAAAAAAAGTA 233

Qy        181 TCAGTCATTACCATGAAACTCTGGGAGAAGCACTTCAAGGGGTTGAATTGGAATTTAGTG 240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        234 TCAGTCATTACCATGAAACTCTGGGAGAAGCACTTCAAGGGGTTGAATTGGAATTTAGTG 293

Qy        241 GTCTGGATATTAAATTTAAAGATGATGTGATGCCAGCCACTTACTGTGAAATTGATTTAG 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        294 GTCTGGATATTAAATTTAAAGATGATGTGATGCCAGCCACTTACTGTGAAATTGATTTAG 353

Qy        301 ATAAAGAAAAGAGAGATGCATTTGTATATGCCATAAAAAATCATTACTGGTACCAGATGT 360
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        354 ATAAAGAAAAGAGAGATGCATTTGTATATGCCATAAAAAATCATTACTGGTACCAGATGT 413

Qy        361 ACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAAGATT 420
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        414 ACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAAGATT 473

Qy        421 ACTATCTTTGGACCTATAAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTTGATG 480
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        474 ACTATCTTTGGACCTATAAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTTGATG 533

Qy        481 TTAATCTAACTAGTGAAGGAAAGGTGAAACT-GGTTCCAAATACTAAAATCCAGATGTCA 539
              |||||||||||||||||||||||||||||| ||||||||||||| ||||||||||||
Db        534 TTAATCTAACTAGTGAAGGAAAGGTGAAACTGGGTTCCAAATACTATAATCCAGATGTCA 593

Qy        540 TATTCAGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATATCTT 599
              ||||||||||||||| |||||||||||||||||||||||||||||| ||||||||
Db        594 TATTCAGTAAAATGG-AAAAGTCAGATGTGAAATTTGAAGATCGATTTGAC-AATATCTT 651

Qy        600 GATCCGTCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATGATG 659
              ||||    | |||||  ||||||||||||||||||||||||||||||||||||||||
Db        652 GATC--GTCCTTTTTTCACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATGATG 709

Qy        660 GTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGATTAT 719
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        710 GTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGATTAT 769

Qy        720 GCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAATAT 779
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        770 GCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAATAT 829

Qy        780 GGATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTTTCC 839
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        830 GGATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTTTCC 889

Qy        840 TCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTTGCA 899
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        890 TCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTTGCA 949

Qy        900 ATGATAGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTCTAT 959
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Db        950 ATGATAGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTCTAT 1009

Qy        960 GCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGAGGA 1019

Db       1010 GCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGAGGA 1069

Qy       1020 AGGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGTGGC 1079

Db       1070 AGGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATG--GGTGTGC 1127

Qy       1080 ACTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCTTTT 1139

Db       1128 ACTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCTTTT 1187

Qy       1140 GGAACAATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCTTGTT 1199

Db       1188 GGAACAATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCTTGTT 1247

Qy       1200 GGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAATGCT 1259

Db       1248 GGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAATGCT 1307

Qy       1260 GTGCCTCGTCCTATACCGGAGAAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGCCTG 1319

Db       1308 GTGCCTCGTCCTATACCGGAGAAAAAATGGTTCATGGAG-CTGCGGTTATTGTTTGCCTG 1366

Qy       1320 GGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCTTTC 1379

Db       1367 GGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCTTTC 1426

Qy       1380 TGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTGTGC 1439

Db       1427 TGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTGTGC 1486

Qy       1440 ATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTAC 1499

Db       1487 ATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTAC 1546

Qy       1500 CGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATGTAT 1559

Db       1547 CGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATGTAT 1606

Qy       1560 TCCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTTTAC 1619

Db       1607 TCCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTTTAC 1666

Qy       1620 TTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATTGGTTAC 1679

Db       1667 TTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATTGGTTAC 1726

Qy       1680 ATGGGAACAAGTGCCTTTGTCCGAAAAATCTATACTAATGTGAAAATTGACTAGAGACCC 1739

Db       1727 ATGGGAACAAGTGCCTTTGTCCGAAAAATCTATACTAATGTGAAAATTGACTAGAGACCC 1786

Qy       1740 AAGAAAACCTGGAACTTTGGATCAATTTCTTTTTCATAGGGGTGGAACTTGCACAGCAAA 1799

Db       1787 AAGAAAACCTGGAACTTTGGATCAATTTCTTTTTCATAGGGGTGGAACTTGCACAGCAAA 1846

Qy       1800 A 1800

Db       1847 A 1847
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RESULT 12
US-10-062-674-1697
; Sequence 1697, Application US/10062674
; Publication No. US20040005559A1
; GENERAL INFORMATION:
;  APPLICANT: Loring, Jeanne F.; Kaser, Matthew R.
;  TITLE OF INVENTION: MARKERS OF NEURONAL DIFFERENTIATION AND MORPHOGENESIS
;  FILE REFERENCE: PA-0026-1 CIP
;  CURRENT APPLICATION NUMBER: US/10/062,674
;  CURRENT FILING DATE:  2002-01-30
;  PRIOR APPLICATION NUMBER: US 09/625,102
;  PRIOR FILING DATE: 2000-07-24
;  NUMBER OF SEQ ID NOS: 2217
;  SOFTWARE: PERL Program
; SEQ ID NO 1697
;   LENGTH: 6197
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   OTHER INFORMATION: Incyte ID No. US20040005559A1 233927.4
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1) ... (6197)
;   OTHER INFORMATION: a, t, c, g, or other
US-10-062-674-1697

  Query Match             56.2%;  Score 1011.6;  DB 17;  Length 6197;
  Best Local Similarity   84.6%;  Pred. No. 6.8e-238;
  Matches 1605;  Conservative    0;  Mismatches  195;  Indels   97;  Gaps   38;

Qy          1 CCGCCGCGCTGTGGCTGCTG-CTGCTGCTGCTGCCCCGGAC-CCGGGCGGACGAGCACGA 58

Db          4 CCGCCGCGCTGTGGCTGCTGTTTGCTGCTGCTGCCCCGGACTCCGGGCGGACGAGCACGA 63

Qy         59 ACACACGTATCAAGATAAAGAGGAAGTTGTCTTATGGATGAATACT--GTTGGGCCCTAC 116

Db         64 ACACACGTGTCAAGATAAAGAGGAAGTTGTCTTATGGATGAATACTTGTTGGGCCCTAAC 123

Qy        117 CATAATCGTCAAGAAACATATAAGTACTTTTCACTTCCATTCTGTGTGGGGTC---AAAA 173

Db        124 AAAATTCGTCAGAAAACTTTTAAGTACTTTTCACTTCCATTCTGTGTGGGGTCAAAAAAA 183

Qy        174 AAAAGTATCAGTCATTACCATGAAACTCTGGGAGAAGCACTTCAAGGGGTTGAATTGGAA 233

Db        184 AAAAGTATCAGTCATTACCATGAAACTCTGGGAGAAGCACTTCAAGGGGTTGAATTGGAA 243

Qy        234 TTTAGTGGTCTGGATATTAAATTTAAAGATG-ATGTGATGCCAGCCACTT-ACTGTGAAA 291

Db        244 TTTAGTGGTCTGGATATTAAATTTAAAGCTGCATGTGATGCCAGCCACTTCACTGTGAAC 303

Qy        292 TTG-ATTTAGATAAAG-AAAAGAGAGATGCATTTGTATATGCCATAAAAAATCATTACTG 349

Db        304 TCGCATTCAGATAAAGCAAAAGAGAGATGCATTTGTATATGCCATAACAAATCATTACTG 363

Qy        350 GTACCAG-ATGTACATAG--ATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGA 406

Db        364 GTACCAGCATGTACATAGCATGATTTACCCNATATGGGGTATTGTTGGTGAGGCTGATGA 423

Qy        407 AAATG-GAGAAGATTACTATC--TTTGGACCTATAAAAAACTTGAAAT--AGGTTTTAAT 461

Db        424 AAATGCGAGAAGATTACTATCTGTTGGACCGTATAAAAAACTTGAAATTAGGTTTTAACT 483

Qy        462 GGAAATCGAA--------TTGTTGATGTTAATCTAACTAGTGAAGGAAAGGTGAAACTGG 513

Db        484 GGAAATCGGAAGTTGTTGTATGTTATATCTAACTACGTGAAGAGAAAGAGTGAAACATGG 543

Qy        514 TTCCAAATACTAAAATCCAGATGTCATATTCAGTAAAATGGAAAAAGTCAGA---TGTGA 570

Db        544 TTCCAAATACTAAAATCCAGATGTCATATTCAGTAAAAGTGGAAACAAGTCAGATTGTGA 603

Qy        571 AATTTGAAGATCGATTTGACAAATATCTTGATCCGTCC-TTTTTTCAACATCGGATTCAT 629

Db        604 AATTTGAAGATCGATTTGACAAATATCTTGATCCGTCCGCTTTTTCAACATCGGATTCAT 663

Qy        630 TGGTTTTCAA-----TTTTCAACTCCTTCATGAT-GGTGATCTTCTTGGT-GGGCTTAGT 682

Db        664 TGGTTTCTCACATGTTGTCAACTCCGTTCATGATGGGTGATCTTCTTGGTGGGGCTTAGT 723

Qy        683 TTCAATGATTTTAATGAGAACA---TTAAGAAAAGATTATGCTCGGTACAGTAAAGAGGA 739

Db        724 TTCAATAGATTTTAATAGAGAACATTAAGAAAAAGATTATGCTCGGTACAGTAAAGAGGA 783
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Qy       740 AGAAATGGATGATATGGATAGAGACCTAGGAGATGAATATG---GATGGAAACAGGTGCA 796
            ||||||||||||||||||||||||||||||||||||||||||       | ||||||||||
Db       784 AGAAATGGATGATATGGATAGAGACCTAGGAGATGAATATGTGATGGGAAAACAGGTGCA 843

Qy       797 T--GGAGATGTATTTAGACCAT-CAAGTCACCCACTGATATTTTCCTCTCTGATTGGTTC 853
            |  | |||||||||||||||||| ||||||||||||||||||||||||||||||||||||
Db       844 TTGGAAGATGTATTTAGACCATCCAAGTCACCCACTGATATTTTCCTCTCTGATTGGTTC 903

Qy       854 TGGATGTCAGATATTTGCTGTGTCTCTCATC-GTTATTATTGTTGCAATGATAGAAGATT 912
            |||||||||||||||||||||||||||||||| || || || || ||||||||||||||||
Db       904 TGGATGTCAGATATTTGCTGTGTCTCTCATCGGTAATAATGGTGGCAATGATAGAAGATT 963

Qy       913 TATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTCTATGC-TGCTACGTCT 971
            |||||||||||||||||||||||||||||||||||||||||||||||| || ||||||||||
Db       964 AATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTCTAAGCTTGCTACGTCT 1023

Qy       972 -CCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGAGGAAGGAGATGGAT 1030
             |||||||||||||||||||||||||       |   ||       ||| || |   || |
Db      1024 CCCAGTGAATGGTTATTTTGGAGGAAGCGATACTAAAAGGAGGAAAGGGAGAATTGGGCT 1083

Qy      1031 --------AAAGCAGATGTTTATTGGGGCATTCC------TTATCCCAGCTATGGTGTGT 1076
                     | |   | |   | | ||||||||||      ||  || |||||    |  |
Db      1084 ATAAAGCCAGAATGGTTTAATTTGGGGGCATTCCCTTTAATTTCCCAAGCTAATTGGGTT 1143

Qy      1077 GGCACTGCCTTC-----------TTCATCAATTTCATAGCCATTTATTACCATGCTTCAA 1125
             |     |||  |           ||||||||||||||||||||||||||||||||||||||
Db      1144 GTTGTGGCCAACTTGCCCTTTCTTTCATCAATTTCATAGCCATTTATTACCATGCTTCAA 1203

Qy      1126 GAGCCATTCCTTTTGGAAC-AATGGTGGCCGTTTGTTGCATCTG-TTTTTTTGTTATTCT 1183
             |||||||||||||||| || ||||||||||||||||||||||| ||||||||||||||||
Db      1204 GAGCCATTCCTTTTGGGACAAATGGTGGCCGTTTGTTGCATCTGTTTTTTTTTGTTATTCT 1263

Qy      1184 TCCTCTAAATCTTGTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCC 1243
             |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1264 TCCTCTAAATCTTGTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCC 1323

Qy      1244 TTGTCGTGTCAATGCTGTGCCTC-GTCCTATACCGGAGA----AAAAATGGTTCATGGAG 1298
             |||||||||||||||||||| |||||||||||||||    | | ||||| |||||||||
Db      1324 TTGTCGTGTCAATGCTGTGCCTCTGTCCTATACCGGAGAACACACAGATGGTACATGGAG 1383

Qy      1299 CCTGCGGTTATTGTTTGCCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATG 1358
             |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1384 CCTGCGGTTATTGTTTGCCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATG 1443

Qy      1359 TATTTCATCTTCACGTCTTTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATG 1418
             |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1444 TATTTCATCTTCACGTCTTTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATG 1503

Qy      1419 CTGGTGCTGGTTATCCTGTGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTT 1478
             |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1504 CTGGTGCTGGTTATCCTGTGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTT 1563

Qy      1479 CTACTAAATGCAGAAGATTACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACT 1538
             |||||||||||||||||||||||||||||||||||||||||||||||||||||||| |||||||
Db      1564 CTACTAAATGCAGAAGATTACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGGATCAACT 1623

Qy      1539 GCAATCTATGTTTACATGTATTCCTTTTACTACTATTTTTT-------CAAAACAAAGAT 1591
             |||||||||||||||||||||||||||||||||||| ||||       ||| | |    ||
Db      1624 GCAATCTATGTTTACATGTATTCCTTTTACTACTATGTTTTTCGAAAACAAGAGATGTAT 1683

Qy      1592 GTATGGCTTATTTCAAACATCATTTTACTTTGGATATATGGC--GGTATTTAGCACAGCC 1649
             ||      || |   | | |  |||   |||||||||||||  |    ||||||||| |
Db      1684 GTGCTTATTGTCAAACATCTATTTTACATTTGGATATATGGCGTGTATATTAGCACAGTC 1743

Qy      1650 TTGGGGATAATGTGTG----GAGCGATTGGTTACATGGGAACAAGTGCCTTTGTCCGAAA 1705
              | |||    || ||||     | |  || | |     ||||||||||||||||||||||||
Db      1744 CTTGGGGATATATGTGTGGAGCGATATGGTTACATGGGGAACAAGTGCCTTTGTCCGAAA 1803

Qy      1706 AATCTATACTAATGTGAAAATTGACTAGAGACCCAAGAAAACCTGGAACTTT-GGATCAA 1764
             |||||||||||||||||||||||||||||||||||||||||||||||||| |||||||
Db      1804 AATCTATACTAATGTGAAAATTGACTAGAGACCCAAGAAAACCTGGAACTTTGGGATCAA 1863

Qy      1765 TTTCTTTTTCATAGGGGT-GGAACTTGCACAGCAAAA 1800
             |||||||||||||||||| ||||||||||||||||||
Db      1864 TTTCTTTTTCATAGGGGTGGGAACTTGCACAGCAAAA 1900
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RESULT 13
US-10-264-237-1414
; Sequence 1414, Application US/10264237
; Publication No. US20040009491A1
; GENERAL INFORMATION:
; APPLICANT: Birse et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PA131P1
; CURRENT APPLICATION NUMBER: US/10/264,237
; CURRENT FILING DATE: 2002-10-04
; PRIOR APPLICATION NUMBER: PCT/US01/16450
; PRIOR FILING DATE: 2001-05-18
; PRIOR APPLICATION NUMBER: US 60/205,515
; PRIOR FILING DATE: 2000-05-19
; NUMBER OF SEQ ID NOS: 2876
; SOFTWARE: PatentIn Ver. 3.1
; SEQ ID NO 1414
; LENGTH: 1070
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (34)..(34)
; OTHER INFORMATION: n equals a,t,g, or c
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (40)..(40)
; OTHER INFORMATION: n equals a,t,g, or c
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (525)..(525)
; OTHER INFORMATION: n equals a,t,g, or c
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (529)..(529)
; OTHER INFORMATION: n equals a,t,g, or c
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (557)..(557)
; OTHER INFORMATION: n equals a,t,g, or c
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (837)..(837)
; OTHER INFORMATION: n equals a,t,g, or c
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (912)..(912)
; OTHER INFORMATION: n equals a,t,g, or c
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (956)..(956)
; OTHER INFORMATION: n equals a,t,g, or c
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (965)..(966)
; OTHER INFORMATION: n equals a,t,g, or c
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1025)..(1025)
; OTHER INFORMATION: n equals a,t,g, or c
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1047)..(1047)
; OTHER INFORMATION: n equals a,t,g, or c
US-10-264-237-1414

Query Match 39.8%; Score 716.4; DB 17; Length 1070;
Best Local Similarity 92.6%; Pred. No. 1.3e-165;

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  Matches  803;  Conservative    0;  Mismatches   11;  Indels   53;  Gaps    3;

Qy        987 TTTGGAGGAAGTCTGTATGCTAGACAAGGAGGAAGGAGATGGATAAAGCAGATGTTTATT 1046
              ||||||||   ||| ||||  ||||||||||||||||| ||||||||||||||||||||
Db         20 TTTGGAGGCTCTCTNTATGANAGACAAGGAGGAAGGACATGGATAAAGCAGATGTTTATT 79

Qy       1047 GGGGCATTCCTTATCCCAGCTATGGTGTGTGGCACTGCCTTCTTCATCAATTTCATAGCC 1106
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         80 GGGGCATTCCTTATCCCAGCTATGGTGTGTGGCACTGCCTTCTTCATCAATTTCATAGCC 139

Qy       1107 ATTTATTACCATGCTTCAAGAGCCATTCCTTTTGGAACAATGGTGGCCGTTTGTTGCATC 1166
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        140 ATTTATTACCATGCTTCAAGAGCCATTCCTTTTGGAACAATGGTGGCCGTTTGTTGCATC 199

Qy       1167 TGTTTTTTTGTTATTCTTCCTCTAAATCTTGTTGGTACAATACTTGGCCGAAATCTGTCA 1226
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        200 TGTTTTTTTGTTATTCTTCCTCTAAATCTTGTTGGTACAATACTTGGCCGAAATCTGTCA 259

Qy       1227 GGTCAGCCCAACTTTCCTTGTCGTGTCAATGCTGTGCCTCGTCCTATACCGGAGAAAAAA 1286
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        260 GGTCAGCCCAACTTTCCTTGTCGTGTCAATGCTGTGCCTCGTCCTATACCGGAGAAAAAA 319

Qy       1287 TGGTTCATGGAGCCTGCGGTTATTGTTTGCCTGGGTGGAATTTTACCTTTTGGTTCAATC 1346
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        320 TGGTTCATGGAGCCTGCGGTTATTGTTTGCCTGGGTGGAATTTTACCTTTTGGTTCAATC 379

Qy       1347 TTTATTGAAATGTATTTCATCTTCACGTCTTTCTGGGCATATAAGATCTATTATGTCTAT 1406
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        380 TTTATTGAAATGTATTTCATCTTCACGTCTTTCTGGGCATATAAGATCTATTATGTCTAT 439

Qy       1407 GGCTTCATGATGCTGGTGCTGGTTATCCTGTGCATTGTGACTGTCTGTGTGACTATTGTG 1466
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        440 GGCTTCATGATGCTGGTGCTGGTTATCCTGTGCATTGTGACTGTCTGTGTGACTATTGTG 499

Qy       1467 TGCACATATTTTCTACTAAATGCAGAA--GATTACCGGT---------------------- 1503
              |||||||||||||||||||||||| |   |||||||||
Db        500 TGCACATATTTTCTACTAAATGCAGNAAGNATTACCGGTGTGCCATTCATTCAAAAGNAG 559

Qy       1504 ----------------------------GGCAATGGACAAGTTTTCTCTCTGCTGCATC 1534
                                           |||||||||||||||||||||||||||||||
Db        560 ATTTATCTTCTTTCCCCCTCCCGCCACCAGGCAATGGACAAGTTTTCTCTCTGCTGCATC 619

Qy       1535 AACTGCAATCTATGTTTACATGTATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTA 1594
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        620 AACTGCAATCTATGTTTACATGTATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTA 679

Qy       1595 TGGCTTATTTCAAACATCATTTTACTTTGGATATATGGCGGTATTTAGCACAGCCTT-GG 1653
              |||||||||||||||||||||||||||||||||||||||||||||||| |||||||| ||
Db        680 TGGCTTATTTCAAACATCATTTTACTTTGGATATATGGCGGTATTTAGTACAGCCTTGGG 739

Qy       1654 GGATAATGTGTGGAGCGATTGGTTACATGGGAACAAGTGCCTTTGTCCGAAAAATCTATA 1713
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        740 GGATAATGTGTGGAGCGATTGGTTACATGGGAACAAGTGCCTTTGTCCGAAAAATCTATA 799

Qy       1714 CTAATGTGAAAATTGACTAGAGACCCAAGAAAACCTGGAACTTTGGATCAATTTCTTTTT 1773
              |||||||||||||||||||||||||||||||||||||| ||||||||||||||||||||
Db        800 CTAATGTGAAAATTGACTAGAGACCCAAGAAAACCTGNAACTTTGGATCAATTTCTTTTT 859

Qy       1774 CATAGGGGTGGAACTTGCACAGCAAAA 1800
              ||||||||||||||||||||||||||||
Db        860 CATAGGGGTGGAACTTGCACAGCAAAA 886


RESULT 14
US-09-915-582-13
; Sequence 13, Application US/09915582
; Patent No. US20020120103A1
; GENERAL INFORMATION:
;  APPLICANT: Rosen et al.
;  TITLE OF INVENTION: 17 Human Secreted Proteins
;  FILE REFERENCE: PS723P1
;  CURRENT APPLICATION NUMBER: US/09/915,582
;  CURRENT FILING DATE:  2001-07-27
;  PRIOR APPLICATION NUMBER: PCT/US01/01431
;  PRIOR FILING DATE: 2001-01-17
;  PRIOR APPLICATION NUMBER: 60/179,065
;  PRIOR FILING DATE: 2000-01-31
;  PRIOR APPLICATION NUMBER: 60/180,628
;  PRIOR FILING DATE: 2000-02-04
;  PRIOR APPLICATION NUMBER: 60/231,968
;  PRIOR FILING DATE: 2000-09-12
;  NUMBER OF SEQ ID NOS: 97
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 13
;   LENGTH: 1867
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-915-582-13

  Query Match             34.4%;  Score 619.6;  DB 9;  Length 1867;
  Best Local Similarity   99.4%;  Pred. No. 1.2e-141;
  Matches  622;  Conservative    0;  Mismatches    4;  Indels    0;  Gaps    0;

Qy       1175 TGTTATTCTTCCTCTAAATCTTGTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCC 1234
              |||   ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         19 TGTGCCTCTTCCTCTAAATCTTGTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCC 78

Qy       1235 CAACTTTCCTTGTCGTGTCAATGCTGTGCCTCGTCCTATACCGGAGAAAAAATGGTTCAT 1294
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         79 CAACTTTCCTTGTCGTGTCAATGCTGTGCCTCGTCCTATACCGGAGAAAAAATGGTTCAT 138

Qy       1295 GGAGCCTGCGGTTATTGTTTGCCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGA 1354
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        139 GGAGCCTGCGGTTATTGTTTGCCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGA 198

Qy       1355 AATGTATTTCATCTTCACGTCTTTCTGGGCATATAAGATCTATTATGTCTATGGCTTCAT 1414
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        199 AATGTATTTCATCTTCACGTCTTTCTGGGCATATAAGATCTATTATGTCTATGGCTTCAT 258

Qy       1415 GATGCTGGTGCTGGTTATCCTGTGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATA 1474
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        259 GATGCTGGTGCTGGTTATCCTGTGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATA 318

Qy       1475 TTTTCTACTAAATGCAGAAGATTACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATC 1534
              |||||||||||||||||||||||| |||||||||||||||||||||||||||||||||||
Db        319 TTTTCTACTAAATGCAGAAGATTACAGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATC 378

Qy       1535 AACTGCAATCTATGTTTACATGTATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTA 1594
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        379 AACTGCAATCTATGTTTACATGTATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTA 438

Qy       1595 TGGCTTATTTCAAACATCATTTTACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGG 1654
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        439 TGGCTTATTTCAAACATCATTTTACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGG 498

Qy       1655 GATAATGTGTGGAGCGATTGGTTACATGGGAACAAGTGCCTTTGTCCGAAAAATCTATAC 1714
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        499 GATAATGTGTGGAGCGATTGGTTACATGGGAACAAGTGCCTTTGTCCGAAAAATCTATAC 558

Qy       1715 TAATGTGAAAATTGACTAGAGACCCAAGAAAACCTGGAACTTTGGATCAATTTCTTTTTC 1774
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        559 TAATGTGAAAATTGACTAGAGACCCAAGAAAACCTGGAACTTTGGATCAATTTCTTTTTC 618

Qy       1775 ATAGGGGTGGAACTTGCACAGCAAAA 1800
              ||||||||||||||||||||||||||
Db        619 ATAGGGGTGGAACTTGCACAGCAAAA 644


RESULT 15
US-10-277-802-13
; Sequence 13, Application US/10277802
; Publication No. US20030190707A1
; GENERAL INFORMATION:
;  APPLICANT: Rosen et al.
;  TITLE OF INVENTION: 17 Human Secreted Proteins
;  FILE REFERENCE: PS723P1
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;  CURRENT APPLICATION NUMBER: US/10/277,802
;  CURRENT FILING DATE:  2002-10-23
;  PRIOR APPLICATION NUMBER: 09/915,582
;  PRIOR FILING DATE: 2001-07-27
;  PRIOR APPLICATION NUMBER: PCT/US01/01431
;  PRIOR FILING DATE: 2001-01-17
;  PRIOR APPLICATION NUMBER: 60/179,065
;  PRIOR FILING DATE: 2000-01-31
;  PRIOR APPLICATION NUMBER: 60/180,628
;  PRIOR FILING DATE: 2000-02-04
;  PRIOR APPLICATION NUMBER: 60/231,968
;  PRIOR FILING DATE: 2000-09-12
;  NUMBER OF SEQ ID NOS: 97
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 13
;   LENGTH: 1867
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-10-277-802-13

  Query Match             34.4%;  Score 619.6;  DB 16;  Length 1867;
  Best Local Similarity   99.4%;  Pred. No. 1.2e-141;
  Matches  622;  Conservative    0;  Mismatches    4;  Indels    0;  Gaps    0;

Qy       1175 TGTTATTCTTCCTCTAAATCTTGTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCC 1234
             |||   ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         19 TGTGCCTCTTCCTCTAAATCTTGTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCC 78

Qy       1235 CAACTTTCCTTGTCGTGTCAATGCTGTGCCTCGTCCTATACCGGAGAAAAAATGGTTCAT 1294
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         79 CAACTTTCCTTGTCGTGTCAATGCTGTGCCTCGTCCTATACCGGAGAAAAAATGGTTCAT 138

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Job time : 1710.79 secs
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GenCore version 5.1.6

OM nucleic - nucleic search, using sw model

Run on: August 13, 2005, 13:05:21 ; Search time 423.292 Seconds
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Perfect score: 1800
Sequence: 1 ccgccgcgctgtggctgctg.....gtggaacttgcacagcaaaa 1800

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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	1	1800	100.0	1827	4	US-09-786-681A-3	Sequence 3, Appli
	2	1800	100.0	2072	4	US-09-786-681A-1	Sequence 1, Appli
	3	444	24.7	444	4	US-09-621-976-18829	Sequence 18829, A
	4	383.4	21.3	440	4	US-09-513-999C-3708	Sequence 3708, Ap
c	5	369.8	20.5	771	4	US-09-270-767-679	Sequence 679, App
c	6	369.8	20.5	771	4	US-09-270-767-15961	Sequence 15961, A
	7	364.8	20.3	433	4	US-09-513-999C-3502	Sequence 3502, Ap
	8	230.8	12.8	571	4	US-09-270-767-28434	Sequence 28434, A
	9	230.8	12.8	1151	4	US-09-270-767-12633	Sequence 12633, A
	10	227.6	12.6	2391	4	US-09-949-016-3623	Sequence 3623, Ap
	11	227.6	12.6	2805	3	US-08-959-004-6	Sequence 6, Appli
	12	161.2	9.0	995	4	US-09-270-767-14715	Sequence 14715, A
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	14	101	5.6	262	4	US-09-313-294A-2292	Sequence 2292, Ap
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	42	41	2.3	601	4	US-09-949-016-103893	Sequence 103893,
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ALIGNMENTS

RESULT 1
US-09-786-681A-3
; Sequence 3, Application US/09786681A
; Patent No. 6692926
; GENERAL INFORMATION:
; APPLICANT: HIDAKA , Jun et al.
; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING L
; TITLE OF INVENTION: BINDING ACTIVITIES, AND THEIR USES
; FILE REFERENCE: 0020-4827P
; CURRENT APPLICATION NUMBER: US/09/786,681A
; CURRENT FILING DATE: 2001-01-24
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 3
; LENGTH: 1827
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (11)..(1747)
US-09-786-681A-3

Query Match 100.0%; Score 1800; DB 4; Length 1827;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1800; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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; Sequence 1, Application US/09786681A
; Patent No. 6692926
; GENERAL INFORMATION:
; APPLICANT: HIDAKA , Jun et al.
; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING L
; TITLE OF INVENTION: BINDING ACTIVITIES, AND THEIR USES
; FILE REFERENCE: 0020-4827P
; CURRENT APPLICATION NUMBER: US/09/786,681A
; CURRENT FILING DATE: 2001-01-24
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1
; LENGTH: 2072
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (49)..(1794)
US-09-786-681A-1

Query Match 100.0%; Score 1800; DB 4; Length 2072;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1800; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 3
US-09-621-976-18829
; Sequence 18829, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 18829
; LENGTH: 444
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-621-976-18829

Query Match 24.7%; Score 444; DB 4; Length 444;
Best Local Similarity 100.0%; Pred. No. 2.2e-112;
Matches 444; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy        486 CTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATGTCATATTCA 545
Db          1 CTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATGTCATATTCA 60

Qy        546 GTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATATCTTGATCCG 605
Db         61 GTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATATCTTGATCCG 120

Qy        606 TCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATGATGGTGATC 665
Db        121 TCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATGATGGTGATC 180

Qy        666 TTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGATTATGCTCGG 725
Db        181 TTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGATTATGCTCGG 240

Qy        726 TACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAATATGGATGG 785
Db        241 TACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAATATGGATGG 300

Qy        786 AAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTTTCCTCTCTG 845
Db        301 AAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTTTCCTCTCTG 360
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Qy        846 ATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTTGCAATGATA 905
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        361 ATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTTGCAATGATA 420

Qy        906 GAAGATTTATATACTGAGAGGGGA 929
              ||||||||||||||||||||||||
Db        421 GAAGATTTATATACTGAGAGGGGA 444


RESULT 4
US-09-513-999C-3708
; Sequence 3708, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
;  APPLICANT: Dumas Milne Edwards, J.B.
;  APPLICANT:  Duclert, A.
;  APPLICANT:  Giordano, J.Y.
;  TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6783961
;  FILE REFERENCE: 59.US2.REG
;  CURRENT APPLICATION NUMBER: US/09/513,999C
;  CURRENT FILING DATE:  2000-02-24
;  PRIOR APPLICATION NUMBER: US 60/122,487
;  PRIOR FILING DATE: 1999-02-26
;  NUMBER OF SEQ ID NOS: 36681
;  SOFTWARE: Patent.pm
; SEQ ID NO 3708
;   LENGTH: 440
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: CDS
;   LOCATION: 180..440
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: 151
;   OTHER INFORMATION: m=a or c
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: 155
;   OTHER INFORMATION: s=g or c
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: 162
;   OTHER INFORMATION: k=g or t
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: 184
;   OTHER INFORMATION: n=a, g, c or t
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: 323
;   OTHER INFORMATION: w=a or t
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: 343
;   OTHER INFORMATION: n=a, g, c or t
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: 397
;   OTHER INFORMATION: m=a or c
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: 400
;   OTHER INFORMATION: m=a or c
;   FEATURE:
;   NAME/KEY: UNSURE
;   LOCATION: 2
;   OTHER INFORMATION: Xaa=Lys or Met or Arg or Thr
;   FEATURE:
;   NAME/KEY: UNSURE
;   LOCATION: 55
;   OTHER INFORMATION: Xaa=Ala or Asp or Gly or Val
;   FEATURE:
;   NAME/KEY: UNSURE
;   LOCATION: 73
;   OTHER INFORMATION: Xaa=Ala or Asp
;   FEATURE:
;   NAME/KEY: UNSURE
;   LOCATION: 74
;   OTHER INFORMATION: Xaa=Lys or Thr
US-09-513-999C-3708

  Query Match             21.3%;  Score 383.4;  DB 4;  Length 440;
  Best Local Similarity   95.7%;  Pred. No. 1.2e-95;
  Matches  420;  Conservative    5;  Mismatches    8;  Indels    6;  Gaps    3;

Qy        574 TTGAAGATCGATTTGACAAATATCTTGATCCGTCCTTTTTTCAACATCGGATTCATTGGT 633
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          2 TTGAAGATCGATTTGACAAATATCTTGATCCGTCCTTTTTTCAACATCGGATTCATTGGT 61

Qy        634 TTTCAATTTTCAACTCCTTCATGATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTT 693
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         62 TTTCAATTTTCAACTCCTTCATGATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTT 121

Qy        694 TAATGAGAACATTAAGAAAAG----ATTATGCTCGGTACAGTAAAGAGGAAGAAATGGAT 749
              ||||||||||||||||||||    | |     :||||||:||||||||||||||||||||
Db        122 TAATGAGAACATTAAGAAAAGAATTAATGMCTCSGGTACAKTAAAGAGGAAGAAATGGAT 181

Qy        750 GAT-ATGGATAGAGACCTAGGAGATGAATATGGATGGAAACAGGTGCATGGAGATGTATT 808
              ||  ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        182 GANGATGGATAGAGACCTAGGAGATGAATATGGATGGAAACAGGTGCATGGAGATGTATT 241

Qy        809 TAGACCATCAAGTCACCCACTGATATTTTCCTCTCTGATTGGTTCTGGATGTCAGATATT 868
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        242 TAGACCATCAAGTCACCCACTGATATTTTCCTCTCTGATTGGTTCTGGATGTCAGATATT 301

Qy        869 TGCTGTGTCTCTCATCGTTATTATTGTTGCAATGATAGAAGATTTATATACTGAGAGGGG 928
              ||||||||||||||||||||:|||||||||||||||||| ||||||||||||||||||||
Db        302 TGCTGTGTCTCTCATCGTTATWATTGTTGCAATGATAGAAGNTTTATATACTGAGAGGGG 361

Qy        929 ATCAATGCTCAGTACAGCCATATTTGTCTATGCTGCTACGTCT-CCAGTGAATGGTTATT 987
              ||||||||||||||||||||||||||||||||:||:|||| ||||||||||||||||||
Db        362 ATCAATGCTCAGTACAGCCATATTTGTCTATGCTGMTAMGTCTCCCAGTGAATGGTTATT 421

Qy        988 TTGGAGGAAGTCTGTATGC 1006
              ||||||||||||||||||||
Db        422 TTGGAGGAAGTCTGTATGC 440


RESULT 5
US-09-270-767-679/c
; Sequence 679, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 679
;   LENGTH: 771
;   TYPE: DNA
;   ORGANISM: Drosophila melanogaster
US-09-270-767-679

  Query Match             20.5%;  Score 369.8;  DB 4;  Length 771;
  Best Local Similarity   67.7%;  Pred. No. 8.9e-92;
  Matches  518;  Conservative    0;  Mismatches  247;  Indels    0;  Gaps    0;

Qy        546 GTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATATCTTGATCCG 605
              || || |||||        | ||| | ||  |  ||||||| ||||| || || |||||
Db        765 GTCAACTGGAAGCCCAGCAAGGTGGAGTTCAAGAATCGATTCGACAAGTACCTGGATCCC 706
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Qy        606 TCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATGATGGTGATC 665
Db        705 AACTTCTTCCAGCACAGGATCCACTGGTTCAGCATCTTCAACAGCTTCATGATGGTCATC 646

Qy        666 TTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGATTATGCTCGG 725
Db        645 TTCCTGGTGGGTCTGGTGTCCATGATTCTGATGCGAACTCTGCGCAAGGATTATGCTCGG 586

Qy        726 TACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAATATGGATGG 785
Db        585 TACAGTAAGGACGAGGAAATCGACGACATGGAGCGAGATCTTGGTGATGAATACGGCTGG 526

Qy        786 AAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTTTCCTCTCTG 845
Db        525 AAGCAGGTGCATGGCGATGTCTTCCGTTCTCCGCCCAACACACTGCTCTTCTCGGCGTTG 466

Qy        846 ATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTTGCAATGATA 905
Db        465 GTGGGCGCTGGATACCAACTGATTTCGGTTGTATTCTGTGTGATCATGTTCGCCATAGTT 406

Qy        906 GAAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTCTATGCTGCT 965
Db        405 GGTGAATTGTACACGGAACGCGGCTCCATGCTGTCCACGGCTATATTTGTGTATGCCGCC 346

Qy        966 ACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGAGGAAGGAGA 1025
Db        345 ACCTCACCAATCAATGGATACTTTGGAGGATCGCTCTATGCCCGCCTGGGTGGACGCATG 286

Qy       1026 TGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGTGGCACTGCC 1085
Db        285 TGGATCCGACAGATGCTGGTGTCCGCTTTTACAGTTCCAGTGGCTGTGTGCGGCACGGCT 226

Qy       1086 TTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCTTTTGGAACA 1145
Db        225 TTCCTGATCAACTTCATTGCCATTGGATATCACGCCTCGAGAGCCATTCCCTTCGGTACC 166

Qy       1146 ATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCTTGTTGGTACA 1205
Db        165 ATGGTGGCGGTCACGTGCATCTGCCTGTTTGTCATCCTGCCCTTGACTCTGGTGGGTACT 106

Qy       1206 ATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAATGCTGTGCCT 1265
Db        105 GTCGTGGGCCGCAATCTGGACGGCCAACCGGACTTTCCATGCCGCGTCAACGCGGTGCCA 46

Qy       1266 CGTCCTATACCGGAGAAAAAATGGTTCATGGAGCCTGCGGTTATT 1310
Db          45 CGACCCATTCCCGAAAAGAAGTGGTACATGGAGCCACTGATTATT 1
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RESULT 6
US-09-270-767-15961/c
; Sequence 15961, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 15961
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Drosophila melanogaster
US-09-270-767-15961

Query Match 20.5%; Score 369.8; DB 4; Length 771;
Best Local Similarity 67.7%; Pred. No. 8.9e-92;
Matches 518; Conservative 0; Mismatches 247; Indels 0; Gaps 0;

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Qy        546 GTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATATCTTGATCCG 605
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Db        765 GTCAACTGGAAGCCCAGCAAGGTGGAGTTCAAGAATCGATTCGACAAGTACCTGGATCCC 706

Qy        606 TCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATGATGGTGATC 665
Db        705 AACTTCTTCCAGCACAGGATCCACTGGTTCAGCATCTTCAACAGCTTCATGATGGTCATC 646

Qy        666 TTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGATTATGCTCGG 725
Db        645 TTCCTGGTGGGTCTGGTGTCCATGATTCTGATGCGAACTCTGCGCAAGGATTATGCTCGG 586

Qy        726 TACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAATATGGATGG 785
Db        585 TACAGTAAGGACGAGGAAATCGACGACATGGAGCGAGATCTTGGTGATGAATACGGCTGG 526

Qy        786 AAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTTTCCTCTCTG 845
Db        525 AAGCAGGTGCATGGCGATGTCTTCCGTTCTCCGCCCAACACACTGCTCTTCTCGGCGTTG 466

Qy        846 ATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTTGCAATGATA 905
Db        465 GTGGGCGCTGGATACCAACTGATTTCGGTTGTATTCTGTGTGATCATGTTCGCCATAGTT 406

Qy        906 GAAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTCTATGCTGCT 965
Db        405 GGTGAATTGTACACGGAACGCGGCTCCATGCTGTCCACGGCTATATTTGTGTATGCCGCC 346

Qy        966 ACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGAGGAAGGAGA 1025
Db        345 ACCTCACCAATCAATGGATACTTTGGAGGATCGCTCTATGCCCGCCTGGGTGGACGCATG 286

Qy       1026 TGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGTGGCACTGCC 1085
Db        285 TGGATCCGACAGATGCTGGTGTCCGCTTTTACAGTTCCAGTGGCTGTGTGCGGCACGGCT 226

Qy       1086 TTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCTTTTGGAACA 1145
Db        225 TTCCTGATCAACTTCATTGCCATTGGATATCACGCCTCGAGAGCCATTCCCTTCGGTACC 166

Qy       1146 ATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCTTGTTGGTACA 1205
Db        165 ATGGTGGCGGTCACGTGCATCTGCCTGTTTGTCATCCTGCCCTTGACTCTGGTGGGTACT 106

Qy       1206 ATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAATGCTGTGCCT 1265
Db        105 GTCGTGGGCCGCAATCTGGACGGCCAACCGGACTTTCCATGCCGCGTCAACGCGGTGCCA 46

Qy       1266 CGTCCTATACCGGAGAAAAAATGGTTCATGGAGCCTGCGGTTATT 1310
Db          45 CGACCCATTCCCGAAAAGAAGTGGTACATGGAGCCACTGATTATT 1
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RESULT 7
US-09-513-999C-3502
; Sequence 3502, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6783961
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 3502
; LENGTH: 433
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:

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;   NAME/KEY: CDS
;   LOCATION: 100..432
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: 86
;   OTHER INFORMATION: m=a or c
US-09-513-999C-3502

  Query Match             20.3%;  Score 364.8;  DB 4;  Length 433;
  Best Local Similarity   98.9%;  Pred. No. 1.6e-90;
  Matches  366;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          60 CACACGTATCAAGATAAAGAGGAAGTTGTCTTATGGATGAATACTGTTGGGCCCTACCAT 119
               ||   |||||||||||||||||:||||||||||||||||||||||||||||||||||||
Db          64 CAGCAGTATCAAGATAAAGAGGMAGTTGTCTTATGGATGAATACTGTTGGGCCCTACCAT 123

Qy         120 AATCGTCAAGAAACATATAAGTACTTTTCACTTCCATTCTGTGTGGGGTCAAAAAAAAGT 179
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         124 AATCGTCAAGAAACATATAAGTACTTTTCACTTCCATTCTGTGTGGGGTCAAAAAAAAGT 183

Qy         180 ATCAGTCATTACCATGAAACTCTGGGAGAAGCACTTCAAGGGGTTGAATTGGAATTTAGT 239
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         184 ATCAGTCATTACCATGAAACTCTGGGAGAAGCACTTCAAGGGGTTGAATTGGAATTTAGT 243

Qy         240 GGTCTGGATATTAAATTTAAAGATGATGTGATGCCAGCCACTTACTGTGAAATTGATTTA 299
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         244 GGTCTGGATATTAAATTTAAAGATGATGTGATGCCAGCCACTTACTGTGAAATTGATTTA 303

Qy         300 GATAAAGAAAAGAGAGATGCATTTGTATATGCCATAAAAAATCATTACTGGTACCAGATG 359
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         304 GATAAAGAAAAGAGAGATGCATTTGTATATGCCATAAAAAATCATTACTGGTACCAGATG 363

Qy         360 TACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAAGAT 419
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         364 TACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAAGAT 423

Qy         420 TACTATCTTT 429
               ||||||||||
Db         424 TACTATCTTT 433


RESULT 8
US-09-270-767-28434
; Sequence 28434, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 28434
;   LENGTH: 571
;   TYPE: DNA
;   ORGANISM: Drosophila melanogaster
US-09-270-767-28434

  Query Match             12.8%;  Score 230.8;  DB 4;  Length 571;
  Best Local Similarity   72.7%;  Pred. No. 1.8e-53;
  Matches  298;  Conservative    0;  Mismatches  112;  Indels    0;  Gaps    0;

Qy        1330 TACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCTTTCTGGGCATATA 1389
               | || ||||| || ||||| ||||| ||||| |||||||||| || |||||||| || |
Db           1 TGCCCTTTGGATCCATCTTCATTGAGATGTACTTCATCTTCACCTCCTTCTGGGCGTACA 60

Qy        1390 AGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTGTGCATTGTGACTG 1449
               ||||||| || ||||| |||||||| |||||||    ||||||    | || || | |
Db          61 AGATCTACTACGTCTACGGCTTCATGTTGCTGGTTTTCAGCATCCTGACTGTGGTCACCG 120

Qy        1450 TCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTACCGGTGGCAAT 1509
               | || || || || |||||||| || || || |||||||| || |||||||| ||||| |
Db         121 TGTGCGTCACCATCGTGTGCACCTACTTCCTGCTAAATGCCGAGGATTACCGATGGCAGT 180

Qy        1510 GGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATGTATTCCTTTTACT 1569
               |||| |||||  |  |||| |  || ||  | || || || |||   |||||||| || |
Db         181 GGACGAGTTTCATGGCTGCGGGCTCCACGTCGATTTACGTGTACGCCTATTCCTTCTATT 240

Qy        1570 ACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTTTACTTTGGATATA 1629
               ||| || || ||||| || ||||  ||  | || |||||  | || |||||||| || |
Db         241 ACTTCTTCTTTAAAACCAAAATGTTCGGTCTGTTCCAAACGGCCTTCTACTTTGGCTACA 300

Qy        1630 TGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATTGGTTACATGGGAACAA 1689
               ||||  | || |||   |||||||| || || || ||  |  | || ||  |||| || |
Db         301 TGGCACTCTTCAGCGGCGCCTTGGGCATTATCTGCGGCACCGTCGGCTATGTGGGCACGA 360

Qy        1690 GTGCCTTTGTCCGAAAAATCTATACTAATGTGAAAATTGACTAGAGACCC 1739
                 |  |||||| || ||||||||| | |||||||||| |||||    |||
Db         361 ATCTCTTTGTGCGCAAAATCTATTCCAATGTGAAAATAGACTAAGAGCCC 410


RESULT 9
US-09-270-767-12633
; Sequence 12633, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12633
;   LENGTH: 1151
;   TYPE: DNA
;   ORGANISM: Drosophila melanogaster
US-09-270-767-12633

  Query Match             12.8%;  Score 230.8;  DB 4;  Length 1151;
  Best Local Similarity   72.7%;  Pred. No. 2.6e-53;
  Matches  298;  Conservative    0;  Mismatches  112;  Indels    0;  Gaps    0;

Qy        1330 TACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCTTTCTGGGCATATA 1389
               | || ||||| || ||||| ||||| ||||| |||||||||| || |||||||| || |
Db           1 TGCCCTTTGGATCCATCTTCATTGAGATGTACTTCATCTTCACCTCCTTCTGGGCGTACA 60

Qy        1390 AGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTGTGCATTGTGACTG 1449
               ||||||| || ||||| |||||||| |||||||    ||||||    | || || | |
Db          61 AGATCTACTACGTCTACGGCTTCATGTTGCTGGTTTTCAGCATCCTGACTGTGGTCACCG 120

Qy        1450 TCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTACCGGTGGCAAT 1509
               | || || || || |||||||| || || || |||||||| || |||||||| ||||| |
Db         121 TGTGCGTCACCATCGTGTGCACCTACTTCCTGCTAAATGCCGAGGATTACCGATGGCAGT 180

Qy        1510 GGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATGTATTCCTTTTACT 1569
               |||| |||||  |  |||| |  || ||  | || || || |||   |||||||| || |
Db         181 GGACGAGTTTCATGGCTGCGGGCTCCACGTCGATTTACGTGTACGCCTATTCCTTCTATT 240

Qy        1570 ACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTTTACTTTGGATATA 1629
               ||| || || ||||| || ||||  ||  | || |||||  | || |||||||| || |
Db         241 ACTTCTTCTTTAAAACCAAAATGTTCGGTCTGTTCCAAACGGCCTTCTACTTTGGCTACA 300

Qy        1630 TGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATTGGTTACATGGGAACAA 1689
               ||||  | || |||   |||||||| || || || ||  |  | || ||  |||| || |
Db         301 TGGCACTCTTCAGCGGCGCCTTGGGCATTATCTGCGGCACCGTCGGCTATGTGGGCACGA 360

Qy        1690 GTGCCTTTGTCCGAAAAATCTATACTAATGTGAAAATTGACTAGAGACCC 1739
                 |  |||||| || ||||||||| | |||||||||| |||||    |||
Db         361 ATCTCTTTGTGCGCAAAATCTATTCCAATGTGAAAATAGACTAAGAGCCC 410


RESULT 10
US-09-949-016-3623
; Sequence 3623, Application US/09949016
```

; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 3623
; LENGTH: 2391
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-3623

Query Match 12.6%; Score 227.6; DB 4; Length 2391;
Best Local Similarity 51.9%; Pred. No. 3e-52;
Matches 596; Conservative 0; Mismatches 534; Indels 18; Gaps 3;

```
Qy       592 AATATCTTGATCCGTCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCT 651
Db       996 ACTATATTCTGGAGTCTATGCCTCATACCCACATTCAGTGGTTTAGCATTATGAATTCCC 1055

Qy       652 TCATGATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAA 711
Db      1056 TGGTCATTGTTCTCTTCTTATCTGGAATGGTAGCTATGATTATGTTACGGACACTGCACA 1115

Qy       712 AAGATTATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAG 771
Db      1116 AAGATATTGCTAGATATAATCAGATGGACTCTACGGAAGATGCCCAG----------G 1163

Qy       772 ATGAATATGGATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGA 831
Db      1164 AAGAATTTGGCTGGAAACTTGTTCATGGTGATATATTCCGTCCTCCAAGAAAAGGGATGC 1223

Qy       832 TATTTTCCTCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTA 891
Db      1224 TGCTATCAGTCTTTCTAGGATCCGGGACACAGATTTTAATTATGACCTTTGTGACTCTAT 1283

Qy       892 TTGTTGCAATGATAGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTAC---AGCCA 948
Db      1284 TTTTCGCTTGCCTGGGATTTTTGTCACCTGCCAACCGAGGAGCGCTGATGACGTGTGCTG 1343

Qy       949 TATTTGTCTATGCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTA 1008
Db      1344 TGGTCCTGTGGGTGCTGCTGGGCACCCCTGCAGGCTATGTTGCTGCCAGATTCTATAAGT 1403

Qy      1009 GACAAGGAGGAAGGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTA 1068
Db      1404 CCTTTGGAGGTGAGAAGTGGAAAACAAATGTTTTATTAACATCATTTCTTTGTCCTGGGA 1463

Qy      1069 TGGTGTGTGGCACTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAG 1128
Db      1464 TTGTATTTGCTGACTTCTTTATAATGAATCTGATCCTCTGGGGAGAAGGATCTTCAGCAG 1523

Qy      1129 CCATTCCTTTTGGAACAATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCTTCCTC 1188
Db      1524 CTATTCCTTTTGGGACACTGGTTGCCATATTGGCCCTTTGGTTCTGCATATCTGTGCCTC 1583

Qy      1189 TAAATCTTGTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTC 1248
Db      1584 TGACGTTTATTGGTGCATACTTTGGTTTTAAGAAGAATGCCATTGAACAC---CCAGTTC 1640

Qy      1249 GTGTCAATGCTGTGCCTCGTCCTATACCGGAGAAAAAATGGTTCATGGAGCCTGCGGTTA 1308
Db      1641 GAACCAATCAGATTCCACGTCAGATTCCTGAACAGTCGTTCTACACGAAGCCCTTGCCTG 1700

Qy      1309 TTGTTTGCCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCT 1368
Db      1701 GTATTATCATGGGAGGGATTTTGCCCTTTGGCTGCATCTTTATACAACTTTTCTTCATTC 1760

Qy      1369 TCACGTCTTTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGG 1428
Db      1761 TGAATAGTATTTGGTCACACCAGATGTATTACATGTTTGGCTTCCTATTTCTGGTGTTTA 1820

Qy      1429 TTATCCTGTGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATG 1488
Db      1821 TCATTTTGGTTATTACCTGTTCTGAAGCAACTATACTTCTTTGCTATTTCCACCTATGTG 1880

Qy      1489 CAGAAGATTACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATG 1548
Db      1881 CAGAGGATTATCATTGGCAATGGCGTTCATTCCTTACGAGTGGCTTTACTGCAGTTTATT 1940

Qy      1549 TTTACATGTATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAA 1608
Db      1941 TCTTAATCTATGCAGTACACTACTTCTTTTCAAAACTGCAGATCACGGGAACAGCAAGCA 2000

Qy      1609 CATCATTTTACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAG 1668
Db      2001 CAATTCTGTACTTTGGTTATACCATGATAATGGTTTTGATCTTCTTTCTTTTTACAGGAA 2060

Qy      1669 CGATTGGTTACATGGGAACAAGTGCCTTTGTCCGAAAAATCTATACTAATGTGAAAATTG 1728
Db      2061 CAATTGGCTTCTTTGCATGCTTTTGGTTTGTTACCAAAATATACAGTGTGGTGAAGGTTG 2120

Qy      1729 ACTAGAGA 1736
Db      2121 ACTGAAGA 2128
```

RESULT 11
US-08-959-004-6
; Sequence 6, Application US/08959004
; Patent No. 6197543
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Yue, Henry
; APPLICANT: Corley, Neil C.
; APPLICANT: Lal, Preeti
; APPLICANT: Shah, Purvi
; APPLICANT: Kaser, Matthew
; TITLE OF INVENTION: HUMAN VESICLE MEMBRANE PROTEIN-LIKE
; TITLE OF INVENTION: PROTEINS
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/959,004
; FILING DATE: Herewith
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0414 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555

```
;      TELEFAX:  650-845-4166
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2805 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    IMMEDIATE SOURCE:
;      LIBRARY:  ADRETUT06
;      CLONE:  2822412
US-08-959-004-6

  Query Match            12.6%;  Score 227.6;  DB 3;  Length 2805;
  Best Local Similarity  51.9%;  Pred. No. 3.3e-52;
  Matches  596;  Conservative    0;  Mismatches  534;  Indels   18;  Gaps    3;

Qy        592 AATATCTTGATCCGTCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCT 651
              | ||| ||     |||  |   |||    | ||||| ||||||   ||| | || |||
Db       1044 ACTATATTCTGGAGTCTATGCCTCATACCCACATTCAGTGGTTTAGCATTATGAATTCCC 1103

Qy        652 TCATGATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAA 711
              |  | || ||  |||||||    ||  | ||  | ||||||  |  |  | ||| |    |
Db       1104 TGGTCATTGTTCTCTTCTTATCTGGAATGGTAGCTATGATTATGTTACGGACACTGCACA 1163

Qy        712 AAGATTATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAG 771
              |||||  |||| | || | | |   |||    | ||| |||    |           |
Db       1164 AAGATATTGCTAGATATAATCAGATGGACTCTACGGAAGATGCCCAG-----------G 1211

Qy        772 ATGAATATGGATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGA 831
              | |||| ||| |||||||  || |||||  ||| ||||   | ||  ||||  |      ||
Db       1212 AAGAATTTGGCTGGAAACTTGTTCATGGTGATATATTCCGTCCTCCAAGAAAAGGGATGC 1271

Qy        832 TATTTTCCTCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTA 891
              |  | ||     |  | || || ||    |||||  ||   | || |  |  |   | ||
Db       1272 TGCTATCAGTCTTTCTAGGATCCGGGACACAGATTTTAATTATGACCTTTGTGACTCTAT 1331

Qy        892 TTGTTGCAATGATAGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTAC---AGCCA 948
              || | ||     | | |  ||| |   |||  |   ||  |  ||| |  ||    ||
Db       1332 TTTTCGCTTGCCTGGGATTTTTGTCACCTGCCAACCGAGGAGCGCTGATGACGTGTGCTG 1391

Qy        949 TATTTGTCTATGCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTA 1008
              |  |  | |  |       |    |        || ||| |||  |  ||  | |||
Db       1392 TGGTCCTGTGGGTGCTGCTGGGCACCCCTGCAGGCTATGTTGCTGCCAGATTCTATAAGT 1451

Qy       1009 GACAAGGAGGAAGGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTA 1068
              |||||   ||  |||| ||    |  | ||  |     |||| |||   || |  |
Db       1452 CCTTTGGAGGTGAGAAGTGGAAAACAAATGTTTTATTAACATCATTTCTTTGTCCTGGGA 1511

Qy       1069 TGGTGTGTGGCACTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAG 1128
              | || | ||     |||  | || ||| | ||    |       |     |||||  ||
Db       1512 TTGTATTTGCTGACTTCTTTATAATGAATCTGATCCTCTGGGGAGAAGGATCTTCAGCAG 1571

Qy       1129 CCATTCCTTTTGGAACAATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCTTCCTC 1188
              | ||||||||||| ||| |||| ||| | |     | | || || |    |  | ||||
Db       1572 CTATTCCTTTTGGGACACTGGTTGCCATATTGGCCCTTTGGTTCTGCATATCTGTGCCTC 1631

Qy       1189 TAAATCTTGTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTC 1248
              |  |  || ||||| ||     ||||     ||   |  |           ||   ||  ||
Db       1632 TGACGTTTATTGGTGCATACTTTGGTTTTAAGAAGAATGCCATTGAACAC---CCAGTTC 1688

Qy       1249 GTGTCAATGCTGTGCCTCGTCCTATACCGGAGAAAAAATGGTTCATGGAGCCTGCGGTTA 1308
              |   ||||    | || ||||  || || ||  |     |  | || | ||||    |  |
Db       1689 GAACCAATCAGATTCCACGTCAGATTCCTGAACAGTCGTTCTACACGAAGCCCTTGCCTG 1748

Qy       1309 TTGTTTGCCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCT 1368
              | ||  | |||| || ||||| || |||||  |  ||||||||  || | |  |||||
Db       1749 GTATTATCATGGGAGGGATTTTGCCCTTTGGCTGCATCTTTATACAACTTTTCTTCATTC 1808

Qy       1369 TCACGTCTTTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGG 1428
              | |    | | ||| || |  |||| |||||  | | |||||||  |  | ||||| |
Db       1809 TGAATAGTATTTGGTCACACCAGATGTATTACATGTTTGGCTTCCTATTTCTGGTGTTTA 1868

Qy       1429 TTATCCTGTGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATG 1488
              | ||  ||   |||     |       |  |||||  |       |||||  |  |||  ||
Db       1869 TCATTTTGGTTATTACCTGTTCTGAAGCAACTATACTTCTTTGCTATTTCCACCTATGTG 1928

Qy       1489 CAGAAGATTACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATG 1548
              ||||  |||||  |  |||||||||      || ||  |   ||  |  ||||||  | |||
Db       1929 CAGAGGATTATCATTGGCAATGGCGTTCATTCCTTACGAGTGGCTTTACTGCAGTTTATT 1988

Qy       1549 TTTACATGTATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAA 1608
              | |  || ||| |  |  ||||||  ||||  |||    ||||    ||   |      |
Db       1989 TCTTAATCTATGCAGTACACTACTTCTTTTCAAAACTGCAGATCACGGGAACAGCAAGCA 2048

Qy       1609 CATCATTTTACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAG 1668
              ||    | |||||||| ||||    | || |          |||     |  |    |||
Db       2049 CAATTCTGTACTTTGGTTATACCATGATAATGGTTTTGATCTTCTTTCTTTTTACAGGAA 2108

Qy       1669 CGATTGGTTACATGGGAACAAGTGCCTTTGTCCGAAAAATCTATACTAATGTGAAAATTG 1728
              | ||||| | | | | |     |    |||||    |||||  || | |   |||||  |||
Db       2109 CAATTGGCTTCTTTGCATGCTTTTGGTTTGTTACCAAAATATACAGTGTGGTGAAGGTTG 2168

Qy       1729 ACTAGAGA 1736
              |||  |||
Db       2169 ACTGAAGA 2176


RESULT 12
US-09-270-767-14715
; Sequence 14715, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14715
;   LENGTH: 995
;   TYPE: DNA
;   ORGANISM: Drosophila melanogaster
US-09-270-767-14715

  Query Match             9.0%;  Score 161.2;  DB 4;  Length 995;
  Best Local Similarity  59.3%;  Pred. No. 4e-34;
  Matches  274;  Conservative    0;  Mismatches  188;  Indels    0;  Gaps    0;

Qy         31 TGCCCCGGACCCGGGCGGACGAGCACGAACACACGTATCAAGATAAAGAGGAAGTTGTCT 90
              || | |   ||| ||| || |||||| | |||| |||  | ||    ||||| || ||
Db        532 TGTCACTCTCCCAGGCAGATGAGCACAATCACAAGTACAATGACCGGGAGGAGGTGGTAC 591

Qy         91 TATGGATGAATACTGTTGGGCCCTACCATAATCGTCAAGAAACATATAAGTACTTTTCAC 150
              | |||||||| || || || |||||  ||||| || || || ||    ||||| || |
Db        592 TGTGGATGAACACGGTGGGCCCGTACCACAATCGGCAGGAGACGTACGCGTACTTCTCTC 651

Qy        151 TTCCATTCTGTGTGGGGTCAAAAAAAAGTATCAGTCATTACCATGAAACTCTGGGAGAAG 210
              | || || ||    ||   |||      ||    || ||||| || || ||| | || |
Db        652 TCCCCTTTTGCAGTGGCCAAAAGTCCTCGATATCCCACTACCACGAGACGCTGAGCGAGG 711

Qy        211 CACTTCAAGGGGTTGAATTGGAATTTAGTGGTCTGGATATTAAATTTAAAGATGATGTGA 270
              | || ||||| || ||  |||| || |||||     || ||  | || ||     || |
Db        712 CGCTGCAAGGAGTCGAGCTGGAGTTCAGTGGCTACGAGATGGAGTTCAAGAGCGACGCCC 771

Qy        271 TGCCAGCCACTTACTGTGAAATTGATTTAGATAAAGAAAAGAGAGATGCATTTGTATATG 330
                | |      |||      ||  |  | || |       | |||||     ||||
Db        772 CCAAATCGGTCATCTGCATGGTCACCTTGCAGGAGGAGAGCGCCAAGGCATTCACCTATG 831

Qy        331 CCATAAAAAAATCATTACTGGTACCAGATGTACATAGATGATTTACCAATATGGGGTATTG 390
              || | || ||  | ||||||||||| |||||||| ||||   | || || ||||| | |
Db        832 CCGTGAAGAACGAGTACTGGTACCAAATGTACATCGATGGACTGCCCATTTGGGGAAAAG 891

Qy        391 TTGGTGAGGCTGATGAAAATGGAGAAGATTACTATCTTTGGACCTATAAAAAACTTGAAA 450
              | ||||||   || ||    |  |   | |||||| | |  ||  | || ||  | || |
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Db        892 TCGGTGAGCGCGACGAGCGCGATGGCAAGTACTATATCTTCACGCACAAGAAGTTCGACA 951

Qy        451 TAGGTTTTAATGGAAATCGAATTGTTGATGTTAATCTAACTA 492
              | || |  |||||  | | ||| || ||| | |  || || |
Db        952 TCGGCTACAATGGCCAGCAAATCGTGGATATCACCCTGACCA 993


RESULT 13
US-09-248-796A-6208
; Sequence 6208, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
;  APPLICANT: Keith Weinstock et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 107196.132
;  CURRENT APPLICATION NUMBER: US/09/248,796A
;  CURRENT FILING DATE:  1999-02-12
;  PRIOR APPLICATION NUMBER: US 60/074,725
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: US 60/096,409
;  PRIOR FILING DATE: 1998-08-13
;  NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 6208
;   LENGTH: 726
;   TYPE: DNA
;   ORGANISM: Candida albicans
US-09-248-796A-6208

  Query Match             7.4%;  Score 132.8;  DB 4;  Length 726;
  Best Local Similarity   51.0%;  Pred. No. 2.3e-26;
  Matches  367;  Conservative    0;  Mismatches  347;  Indels    6;  Gaps    2;

Qy       1014 GGAGGAAGGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTG 1073
              || ||    |  |||| |  | | |||||| |     || |  |  | |||| ||  ||
Db         13 GGTGGTGACAATTGGAAATTGAATATGTTTTTGACACCAGTTTTAGTACCAGGGATTTTG 72

Qy       1074 TGTGGCACTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATT 1133
              | |    |  | |  | |||||| |    ||||     ||  |||| | || |||
Db         73 TCTCTGGTTTTCGTTGTGTTGAATTTCTTTTTAATTTCAGTACAATCTTCTGGTGCTATT 132

Qy       1134 CCTTTTGGAACAATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAAT 1193
              | | || |||||| | ||| ||   |  || || ||  || |   . ||||  ||| |
Db        133 CATATGGGGACAATGTTTGCCATTGTCTTAATTTGGTTCATTATATCGATTCCATTAAGT 192

Qy       1194 CTTGTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTC 1253
              || ||||  ||||  | |   | |||    ||        |    | ||    |
Db        193 GTTATTGGATCAATTTAGCTAGTAATAGACCATTATTATC---GGTACCAGTGAGAACT 249

Qy       1254 AATGCTGTGCCTCGTCCTATACCGGAGAAAAAATGGTTCATGGAGCCTGCGGTTATTGTT 1313
              |||    | ||  | |  || ||     ||  |||||  |    ||      |   |
Db        250 AATCAAATTCCAAGACAAATTCCTACTCAACCATGGTATTTAAGTACTATCCCGGTAATG 309

Qy       1314 TGCCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACG 1373
              |   |    |||||||| || |||||  |||||    | | ||||||||||| || |   |
Db        310 TTTATTTCGGGAATTTTCCCATTTGGATCAATTGCTGTGGAAATGTATTTTATTTATTCA 369

Qy       1374 TCTTTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATC 1433
              ||  | |||    |||||||  | |||| | | ||| ||  |  |  |      | |  |
Db        370 TCAATTTGGTTTAATAAGATTTTTTATATGTTTGGATTTTTATTTTTCTGTTTCATATTA 429

Qy       1434 CTGTGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAA 1493
              ||     |   | |   | ||||||  |    |  ||||  |    ||  | |||||
Db        430 ATGATTTTAACTAGTAGTTTAATTACTATTTTAATGATTTATTATACTTTATGTTCAGAA 489

Qy       1494 GATTACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTAC 1553
              ||||    |||||||||| |   ||  |   ||  | |      |||||| |||||  |
Db        490 AATTATAAATGGCAATGGAAATCATTATTTGTTGGAGGAGGTTGTGCAATTTATGTATTT 549

Qy       1554 ATGTATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCA 1613
              ||  |||| ||||  |    |  |    |  |||  |  |||  ||   |  |  |
Db        550 ATTCATTCATTTTTTTTGACTGGTGGTGA---AAAATTTGGTGGATTTAGTTCATTAGTT 606
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Qy       1614 TTTTACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATT 1673
              || |||  |||| |||   || ||  ||      |     |     |||||| | |||
Db        607 TTATACAGTGGTTATTCAGCTGTGATTTCATTATTAGTTTTCCTTTGTTGTGGATCAATT 666

Qy       1674 GGTTACATGGGAACAAGTGCCTTTGTCCGAAAAATCTATACTAATGTGAAAATTGACTAG 1733
              || |  ||  | |        |||||| ||  ||| |||  | |  | |||||||| |||
Db        667 GGATTTATTAGTAGTTTAATATTTGTCAGATTAATTTATGGTCAAATTAAAATTGATTAG 726


RESULT 14
US-09-313-294A-2292
; Sequence 2292, Application US/09313294A
; Patent No. 6476212
; GENERAL INFORMATION:
;  APPLICANT:  Lalgudi, Raghunath V.
;  APPLICANT:  Ito, Laura Y.
;  APPLICANT:  Sherman, Bradley K.
;  TITLE OF INVENTION:  POLYNUCLEOTIDES AND POLYPEPTIDES DERIVED FROM CORN EAR
;  FILE REFERENCE:  PL-0017 US
;  CURRENT APPLICATION NUMBER: US/09/313,294A
;  CURRENT FILING DATE:  1999-05-14
;  NUMBER OF SEQ ID NOS:  7600
;  SOFTWARE:  PERL Program
; SEQ ID NO 2292
;   LENGTH: 262
;   TYPE: DNA
;   ORGANISM: Zea mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   OTHER INFORMATION: Incyte ID No. 6476212 700552439H1
US-09-313-294A-2292

  Query Match             5.6%;  Score 101;  DB 4;  Length 262;
  Best Local Similarity   68.4%;  Pred. No. 7.9e-18;
  Matches  154;  Conservative    0;  Mismatches   70;  Indels    1;  Gaps    1;

Qy       1450 TCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTACCGGTGGCAAT 1509
              ||||  || |||||||||  | ||  |||||  |  ||  ||  ||  |  ||||  |||||||
Db         39 TCTGCGTCACTATTGTGGGTACTTATTTCTTGCTGAACGCCGAGAACTACCATTGGCAAT 98

Qy       1510 GGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATGTATTCCTTTTACT 1569
              ||||    |||   |||||  ||  |||||  ||   |  ||  ||  ||  |||| ||| | ||||
Db         99 GGACGTCGTTTTCTTCTGCAGCGTCAACCGCTCTGTACGTGTATCTGTACTCCATCTACT 158

Qy       1570 ACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTTTACTTTGGATATA 1629
              ||||   | | ||  ||||||||||  |||||  ||  ||  |||    ||  ||  ||  ||  |
Db        159 ACTACCATGTGAAGACAAAGATGTCAGGCTTCTTCCAGACAAGTTTCTATTTCGGCTACA 218

Qy       1630 TGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATTG 1674
              |  | | ||  || | | | | || ||| | ||||||| ||||
Db        219 CGCTGATGTTCTGC-CTGGCCTAGGCATACTTTGTGGAGCTATTG 262


RESULT 15
US-09-385-982-530/c
; Sequence 530, Application US/09385982
; Patent No. 6262334
; GENERAL INFORMATION:
;  APPLICANT: ENDEGE, WILSON O., ET AL.
;  TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION
;  TITLE OF INVENTION: PRODUCTS:  II
;  FILE REFERENCE: CCDNA-260XX
;  CURRENT APPLICATION NUMBER: US/09/385,982
;  CURRENT FILING DATE: 1999-08-30
;  EARLIER APPLICATION NUMBER: 09/328,111
;  EARLIER FILING DATE: 1999-06-08
;  EARLIER APPLICATION NUMBER: 60/117,393
;  EARLIER FILING DATE: 1999-01-27
;  EARLIER APPLICATION NUMBER: 60/098,639
;  EARLIER FILING DATE: 1998-08-31
;  NUMBER OF SEQ ID NOS: 544
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 530
```

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;   LENGTH: 769
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)...(769)
;   OTHER INFORMATION: n = A,T,C or G
US-09-385-982-530

  Query Match             5.1%;  Score 91.6;  DB 3;  Length 769;
  Best Local Similarity   57.0%;  Pred. No. 5.7e-15;
  Matches  166;  Conservative    0;  Mismatches  125;  Indels    0;  Gaps    0;

Qy       1261 TGCCTCGTCCTATACCGGAGAAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGCCTGG 1320
             | |   |||  || || ||  |    |  | || | ||||   |  |  | ||  | |||
Db        308 TCCACNGTCAGATTCCTGAACAGTCGTTCTACACGAAGCCCTTGCCTGGTATTATCATGG 249

Qy       1321 GTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCTTTCT 1380
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Job time : 425.292 secs
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GenCore version 5.1.6

OM nucleic - nucleic search, using sw model

Run on: August 13, 2005, 20:00:12 ; Search time 1242.21 Seconds
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Perfect score: 1317
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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 7305758 seqs, 3244068913 residues

Total number of hits satisfying chosen parameters: 14611516

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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	1	1317	100.0	1827	20	US-10-755-466-3	Sequence 3, Appli
	2	1317	100.0	2072	20	US-10-755-466-1	Sequence 1, Appli
	3	1317	100.0	3076	9	US-09-915-582-29	Sequence 29, Appl
	4	1317	100.0	3076	16	US-10-277-802-29	Sequence 29, Appl
	5	1317	100.0	3076	21	US-10-896-972-29	Sequence 29, Appl
	6	1317	100.0	3508	10	US-09-814-353-21837	Sequence 21837, A
	7	1317	100.0	4024	14	US-10-198-846-10005	Sequence 10005, A
	8	1315.4	99.9	3370	10	US-09-374-046A-25	Sequence 25, Appl
	9	1315.4	99.9	3370	18	US-10-616-263-25	Sequence 25, Appl
	10	1226	93.1	3389	15	US-10-205-219-122	Sequence 122, App
	11	1226	93.1	3389	21	US-10-956-157-2297	Sequence 2297, Ap
	12	709.6	53.9	6197	17	US-10-062-674-1697	Sequence 1697, Ap
	13	590.4	44.8	1070	17	US-10-264-237-1414	Sequence 1414, Ap
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	18	492.6	37.4	1867	16	US-10-277-802-13	Sequence 13, Appl
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	43	222.2	16.9	1346	19	US-10-767-795-636	Sequence 636, App
	44	221	16.8	2101	18	US-10-425-114-3633	Sequence 3633, Ap
	45	219.4	16.7	3097	20	US-10-425-115-17630	Sequence 17630, A

ALIGNMENTS

RESULT 1
US-10-755-466-3
; Sequence 3, Application US/10755466
; Publication No. US20040265854A1
; GENERAL INFORMATION:
; APPLICANT: HIDAKA , Jun et al.
; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING I
; TITLE OF INVENTION: BINDING ACTIVITIES, AND THEIR USES
; FILE REFERENCE: 0020-4827P
; CURRENT APPLICATION NUMBER: US/10/755,466
; CURRENT FILING DATE: 2004-01-13
; PRIOR APPLICATION NUMBER: US/09/786,681
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 3
; LENGTH: 1827
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (11)..(1747)
US-10-755-466-3

Query Match 100.0%; Score 1317; DB 20; Length 1827;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGTACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAA 60

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; Publication No. US20040265854A1
; GENERAL INFORMATION:
; APPLICANT: HIDAKA , Jun et al.
; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING L
; TITLE OF INVENTION: BINDING ACTIVITIES, AND THEIR USES
; FILE REFERENCE: 0020-4827P
; CURRENT APPLICATION NUMBER: US/10/755,466
; CURRENT FILING DATE: 2004-01-13
; PRIOR APPLICATION NUMBER: US/09/786,681
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1
; LENGTH: 2072
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (49)..(1794)
US-10-755-466-1

Query Match 100.0%; Score 1317; DB 20; Length 2072;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db       1561 TACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATG 1620

Qy       1201 TATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTT 1260
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1621 TATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTT 1680

Qy       1261 TACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATT 1317
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1681 TACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATT 1737
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RESULT 3
US-09-915-582-29
; Sequence 29, Application US/09915582
; Patent No. US20020120103A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 17 Human Secreted Proteins
; FILE REFERENCE: PS723P1
; CURRENT APPLICATION NUMBER: US/09/915,582
; CURRENT FILING DATE: 2001-07-27
; PRIOR APPLICATION NUMBER: PCT/US01/01431
; PRIOR FILING DATE: 2001-01-17
; PRIOR APPLICATION NUMBER: 60/179,065
; PRIOR FILING DATE: 2000-01-31
; PRIOR APPLICATION NUMBER: 60/180,628
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: 60/231,968
; PRIOR FILING DATE: 2000-09-12
; NUMBER OF SEQ ID NOS: 97
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 29
; LENGTH: 3076
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (3064)
; OTHER INFORMATION: n equals a,t,g, or c
US-09-915-582-29

Query Match 100.0%; Score 1317; DB 9; Length 3076;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 ATGTACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAA 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        352 ATGTACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAA 411

Qy         61 GATTACTATCTTTGGACCTATAAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        412 GATTACTATCTTTGGACCTATAAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTT 471

Qy        121 GATGTTAATCTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATG 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        472 GATGTTAATCTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATG 531

Qy        181 TCATATTCAGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATAT 240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        532 TCATATTCAGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATAT 591

Qy        241 CTTGATCCGTCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATG 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        592 CTTGATCCGTCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATG 651

Qy        301 ATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGAT 360
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        652 ATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGAT 711

Qy        361 TATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAA 420
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        712 TATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAA 771

Qy        421 TATGGATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTT 480
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        772 TATGGATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTT 831

Qy        481 TCCTCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTT 540
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        832 TCCTCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTT 891

Qy        541 GCAATGATAGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTC 600
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        892 GCAATGATAGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTC 951

Qy        601 TATGCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGA 660
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        952 TATGCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGA 1011

Qy        661 GGAAGGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGT 720
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1012 GGAAGGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGT 1071

Qy        721 GGCACTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCT 780
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1072 GGCACTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCT 1131

Qy        781 TTTGGAACAATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCTT 840
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Db       1132 TTTGGAACAATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCTT 1191

Qy        841 GTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAAT 900
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1192 GTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAAT 1251

Qy        901 GCTGTGCCTCGTCCTATACCGGAGAAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGC 960
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1252 GCTGTGCCTCGTCCTATACCGGAGAAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGC 1311

Qy        961 CTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCT 1020
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1312 CTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCT 1371

Qy       1021 TTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTG 1080
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1372 TTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTG 1431

Qy       1081 TGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGAT 1140
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1432 TGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGAT 1491

Qy       1141 TACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATG 1200
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1492 TACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATG 1551

Qy       1201 TATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTT 1260
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1552 TATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTT 1611

Qy       1261 TACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATT 1317
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1612 TACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATT 1668


RESULT 4
US-10-277-802-29
; Sequence 29, Application US/10277802
; Publication No. US20030190707A1
; GENERAL INFORMATION:
;  APPLICANT: Rosen et al.
;  TITLE OF INVENTION: 17 Human Secreted Proteins
;  FILE REFERENCE: PS723P1
;  CURRENT APPLICATION NUMBER: US/10/277,802
;  CURRENT FILING DATE:  2002-10-23
;  PRIOR APPLICATION NUMBER: 09/915,582
;  PRIOR FILING DATE: 2001-07-27
;  PRIOR APPLICATION NUMBER: PCT/US01/01431
;  PRIOR FILING DATE: 2001-01-17
;  PRIOR APPLICATION NUMBER: 60/179,065
;  PRIOR FILING DATE: 2000-01-31
;  PRIOR APPLICATION NUMBER: 60/180,628
;  PRIOR FILING DATE: 2000-02-04
;  PRIOR APPLICATION NUMBER: 60/231,968
;  PRIOR FILING DATE: 2000-09-12
;  NUMBER OF SEQ ID NOS: 97
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 29
;   LENGTH: 3076
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: SITE
;   LOCATION: (3064)
;   OTHER INFORMATION: n equals a,t,g, or c
US-10-277-802-29

  Query Match           100.0%;  Score 1317;  DB 16;  Length 3076;
  Best Local Similarity  100.0%;  Pred. No. 0;
  Matches 1317;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 ATGTACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAA 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Db        352 ATGTACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAA 411

Qy         61 GATTACTATCTTTGGACCTATAAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        412 GATTACTATCTTTGGACCTATAAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTT 471

Qy        121 GATGTTAATCTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATG 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        472 GATGTTAATCTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATG 531

Qy        181 TCATATTCAGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATAT 240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        532 TCATATTCAGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATAT 591

Qy        241 CTTGATCCGTCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATG 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        592 CTTGATCCGTCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATG 651

Qy        301 ATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGAT 360
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        652 ATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGAT 711

Qy        361 TATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAA 420
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        712 TATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAA 771

Qy        421 TATGGATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTT 480
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        772 TATGGATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTT 831

Qy        481 TCCTCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTT 540
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        832 TCCTCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTT 891

Qy        541 GCAATGATAGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTC 600
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        892 GCAATGATAGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTC 951

Qy        601 TATGCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGA 660
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        952 TATGCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGA 1011

Qy        661 GGAAGGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGT 720
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1012 GGAAGGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGT 1071

Qy        721 GGCACTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCT 780
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1072 GGCACTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCT 1131

Qy        781 TTTGGAACAATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCTT 840
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1132 TTTGGAACAATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCTT 1191

Qy        841 GTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAAT 900
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1192 GTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAAT 1251

Qy        901 GCTGTGCCTCGTCCTATACCGGAGAAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGC 960
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1252 GCTGTGCCTCGTCCTATACCGGAGAAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGC 1311

Qy        961 CTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCT 1020
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1312 CTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCT 1371

Qy       1021 TTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTG 1080
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1372 TTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTG 1431

Qy       1081 TGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGAT 1140
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1432 TGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGAT 1491
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Qy       1141 TACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATG 1200
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1492 TACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATG 1551

Qy       1201 TATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTT 1260
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1552 TATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTT 1611

Qy       1261 TACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATT 1317
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1612 TACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATT 1668


RESULT 5
US-10-896-972-29
; Sequence 29, Application US/10896972
; Publication No. US20050032168A1
; GENERAL INFORMATION:
;  APPLICANT: Rosen et al.
;  TITLE OF INVENTION: 17 Human Secreted Proteins
;  FILE REFERENCE: PS723P1
;  CURRENT APPLICATION NUMBER: US/10/896,972
;  CURRENT FILING DATE:  2004-07-23
;  PRIOR APPLICATION NUMBER: US/09/915,582
;  PRIOR FILING DATE: 2001-07-27
;  PRIOR APPLICATION NUMBER: PCT/US01/01431
;  PRIOR FILING DATE: 2001-01-17
;  PRIOR APPLICATION NUMBER: 60/179,065
;  PRIOR FILING DATE: 2000-01-31
;  PRIOR APPLICATION NUMBER: 60/180,628
;  PRIOR FILING DATE: 2000-02-04
;  PRIOR APPLICATION NUMBER: 60/231,968
;  PRIOR FILING DATE: 2000-09-12
;  NUMBER OF SEQ ID NOS: 97
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 29
;  LENGTH: 3076
;  TYPE: DNA
;  ORGANISM: Homo sapiens
;  FEATURE:
;  NAME/KEY: SITE
;  LOCATION: (3064)
;  OTHER INFORMATION: n equals a,t,g, or c
US-10-896-972-29

  Query Match             100.0%;  Score 1317;  DB 21;  Length 3076;
  Best Local Similarity   100.0%;  Pred. No. 0;
  Matches 1317;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 ATGTACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAA 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        352 ATGTACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAA 411

Qy         61 GATTACTATCTTTGGACCTATAAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        412 GATTACTATCTTTGGACCTATAAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTT 471

Qy        121 GATGTTAATCTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATG 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        472 GATGTTAATCTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATG 531

Qy        181 TCATATTCAGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATAT 240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        532 TCATATTCAGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATAT 591

Qy        241 CTTGATCCGTCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATG 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        592 CTTGATCCGTCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATG 651

Qy        301 ATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGAT 360
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        652 ATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGAT 711

Qy        361 TATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAA 420
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        712 TATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAA 771

Qy        421 TATGGATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTT 480
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        772 TATGGATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTT 831

Qy        481 TCCTCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTT 540
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        832 TCCTCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTT 891

Qy        541 GCAATGATAGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTC 600
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        892 GCAATGATAGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTC 951

Qy        601 TATGCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGA 660
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        952 TATGCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGA 1011

Qy        661 GGAAGGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGT 720
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1012 GGAAGGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGT 1071

Qy        721 GGCACTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCT 780
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1072 GGCACTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCT 1131

Qy        781 TTTGGAACAATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCTT 840
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1132 TTTGGAACAATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCTT 1191

Qy        841 GTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAAT 900
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1192 GTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAAT 1251

Qy        901 GCTGTGCCTCGTCCTATACCGGAGAAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGC 960
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1252 GCTGTGCCTCGTCCTATACCGGAGAAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGC 1311

Qy        961 CTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCT 1020
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1312 CTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCT 1371

Qy       1021 TTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTG 1080
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1372 TTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTG 1431

Qy       1081 TGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGAT 1140
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1432 TGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGAT 1491

Qy       1141 TACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATG 1200
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1492 TACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATG 1551

Qy       1201 TATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTT 1260
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1552 TATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTT 1611

Qy       1261 TACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATT 1317
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1612 TACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATT 1668


RESULT 6
US-09-814-353-21837
; Sequence 21837, Application US/09814353
; Publication No. US20030165831A1
; GENERAL INFORMATION:
;  APPLICANT: Lee, John
;  APPLICANT:  Thompson, Pamela
```

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;  APPLICANT:  Lillie, James
;  TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
;  TITLE OF INVENTION:  IDENTIFICATION, ASSESSMENT, PREVENTION, AND
;  TITLE OF INVENTION:  THERAPY OF OVARIAN CANCER
;  FILE REFERENCE: MRI-006B
;  CURRENT APPLICATION NUMBER: US/09/814,353
;  CURRENT FILING DATE:  2001-03-21
;  PRIOR APPLICATION NUMBER: US 60/191,031
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: US 60/207,124
;  PRIOR FILING DATE: 2000-05-25
;  PRIOR APPLICATION NUMBER: US 60/211,940
;  PRIOR FILING DATE: 2000-06-15
;  PRIOR APPLICATION NUMBER: US 60/216,820
;  PRIOR FILING DATE: 2000-07-07
;  PRIOR APPLICATION NUMBER: US 60/220,661
;  PRIOR FILING DATE: 2000-07-25
;  PRIOR APPLICATION NUMBER: US 60/257,672
;  PRIOR FILING DATE: 2000-12-21
;  NUMBER OF SEQ ID NOS: 22037
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 21837
;   LENGTH: 3508
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: 1, 2, 3506, 3507, 3508
;   OTHER INFORMATION: n = A,T,C or G
US-09-814-353-21837

  Query Match             100.0%;  Score 1317;  DB 10;  Length 3508;
  Best Local Similarity   100.0%;  Pred. No. 0;
  Matches 1317;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 ATGTACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAA 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        410 ATGTACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAA 469

Qy         61 GATTACTATCTTTGGACCTATAAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        470 GATTACTATCTTTGGACCTATAAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTT 529

Qy        121 GATGTTAATCTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATG 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        530 GATGTTAATCTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATG 589

Qy        181 TCATATTCAGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATAT 240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        590 TCATATTCAGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATAT 649

Qy        241 CTTGATCCGTCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATG 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        650 CTTGATCCGTCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATG 709

Qy        301 ATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGAT 360
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        710 ATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGAT 769

Qy        361 TATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAA 420
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        770 TATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAA 829

Qy        421 TATGGATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTT 480
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        830 TATGGATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTT 889

Qy        481 TCCTCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTT 540
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        890 TCCTCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTT 949

Qy        541 GCAATGATAGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTC 600
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        950 GCAATGATAGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTC 1009

Qy        601 TATGCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGA 660
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1010 TATGCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGA 1069

Qy        661 GGAAGGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGT 720
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1070 GGAAGGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGT 1129

Qy        721 GGCACTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCT 780
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1130 GGCACTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCT 1189

Qy        781 TTTGGAACAATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCTT 840
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1190 TTTGGAACAATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCTT 1249

Qy        841 GTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAAT 900
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1250 GTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAAT 1309

Qy        901 GCTGTGCCTCGTCCTATACCGGAGAAAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGC 960
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1310 GCTGTGCCTCGTCCTATACCGGAGAAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGC 1369

Qy        961 CTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCT 1020
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1370 CTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCT 1429

Qy       1021 TTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTG 1080
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1430 TTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTG 1489

Qy       1081 TGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGAT 1140
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1490 TGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGAT 1549

Qy       1141 TACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATG 1200
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1550 TACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATG 1609

Qy       1201 TATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTT 1260
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1610 TATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTT 1669

Qy       1261 TACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATT 1317
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1670 TACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATT 1726


RESULT 7
US-10-198-846-10005
; Sequence 10005, Application US/10198846
; Publication No. US20030099974A1
; GENERAL INFORMATION:
;  APPLICANT: Lillie, James
;  APPLICANT:  Xu, Yongyao
;  APPLICANT:  Wang, Youzhen
;  APPLICANT:  Steinmann, Kathleen
;  TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS
;  TITLE OF INVENTION:  FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
;  TITLE OF INVENTION:  THERAPY OF BREAST CANCER
;  FILE REFERENCE: MRI-049
;  CURRENT APPLICATION NUMBER: US/10/198,846
;  CURRENT FILING DATE:  2002-07-18
;  PRIOR APPLICATION NUMBER: 60/306,220
;  PRIOR FILING DATE: 2001-07-18
;  NUMBER OF SEQ ID NOS: 14084
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10005
;   LENGTH: 4024
;   TYPE: DNA
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;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: 1, 2, 4021, 4022, 4023, 4024
;   OTHER INFORMATION: n = A,T,C or G
US-10-198-846-10005

  Query Match             100.0%;  Score 1317;  DB 14;  Length 4024;
  Best Local Similarity   100.0%;  Pred. No. 0;
  Matches 1317;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 ATGTACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAA 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        410 ATGTACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAA 469

Qy         61 GATTACTATCTTTGGACCTATAAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        470 GATTACTATCTTTGGACCTATAAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTT 529

Qy        121 GATGTTAATCTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATG 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        530 GATGTTAATCTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATG 589

Qy        181 TCATATTCAGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATAT 240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        590 TCATATTCAGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATAT 649

Qy        241 CTTGATCCGTCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATG 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        650 CTTGATCCGTCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATG 709

Qy        301 ATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGAT 360
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        710 ATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGAT 769

Qy        361 TATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAA 420
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        770 TATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAA 829

Qy        421 TATGGATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTT 480
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        830 TATGGATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTT 889

Qy        481 TCCTCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTT 540
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        890 TCCTCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTT 949

Qy        541 GCAATGATAGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTC 600
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        950 GCAATGATAGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTC 1009

Qy        601 TATGCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGA 660
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1010 TATGCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGA 1069

Qy        661 GGAAGGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGT 720
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1070 GGAAGGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGT 1129

Qy        721 GGCACTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCT 780
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1130 GGCACTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCT 1189

Qy        781 TTTGGAACAATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCTT 840
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1190 TTTGGAACAATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCTT 1249

Qy        841 GTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAAT 900
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1250 GTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAAT 1309

Qy        901 GCTGTGCCTCGTCCTATACCGGAGAAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGC 960
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1310 GCTGTGCCTCGTCCTATACCGGAGAAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGC 1369

Qy        961 CTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCT 1020
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1370 CTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCT 1429

Qy       1021 TTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTG 1080
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1430 TTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTG 1489

Qy       1081 TGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGAT 1140
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1490 TGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGAT 1549

Qy       1141 TACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATG 1200
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1550 TACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATG 1609

Qy       1201 TATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTT 1260
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1610 TATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTT 1669

Qy       1261 TACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATT 1317
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1670 TACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATT 1726


RESULT 8
US-09-374-046A-25
; Sequence 25, Application US/09374046A
; Publication No. US20030096951A1
; GENERAL INFORMATION:
;  APPLICANT: Jacobs, Kenneth
;  APPLICANT: McCoy, John M.
;  APPLICANT: LaVallie, Edward R.
;  APPLICANT: Collins-Racie, Lisa A.
;  APPLICANT: Evans, Cheryl
;  APPLICANT: Merberg, David
;  APPLICANT: Treacy, Maurice
;  APPLICANT: Agostino, Michael J.
;  APPLICANT: Steininger II, Robert J.
;  APPLICANT: Spaulding, Vikki
;  APPLICANT: Wong, Gordon G.
;  APPLICANT: Clark, Hilary
;  APPLICANT: Fechtel, Kim
;  APPLICANT: Genetics Institute, Inc.
;  TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM
;  FILE REFERENCE: GI 6075-83A
;  CURRENT APPLICATION NUMBER: US/09/374,046A
;  CURRENT FILING DATE: 1999-08-13
;  NUMBER OF SEQ ID NOS: 240
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 25
;   LENGTH: 3370
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-374-046A-25

  Query Match             99.9%;  Score 1315.4;  DB 10;  Length 3370;
  Best Local Similarity   99.9%;  Pred. No. 0;
  Matches 1316;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 ATGTACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAA 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        353 ATGTACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAA 412

Qy         61 GATTACTATCTTTGGACCTATAAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        413 GATTACTATCTTTGGACCTATAAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTT 472

Qy        121 GATGTTAATCTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATG 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        473 GATGTTAATCTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATG 532
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Qy       181 TCATATTCAGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATAT 240
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       533 TCATATTCAGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATAT 592

Qy       241 CTTGATCCGTCCTTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATG 300
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       593 CTTGATCCGTCCTTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATG 652

Qy       301 ATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGAT 360
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       653 ATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGAT 712

Qy       361 TATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAA 420
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       713 TATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAA 772

Qy       421 TATGGATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTT 480
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       773 TATGGATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTT 832

Qy       481 TCCTCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTT 540
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       833 TCCTCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTT 892

Qy       541 GCAATGATAGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTC 600
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       893 GCAATGATAGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTC 952

Qy       601 TATGCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGA 660
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       953 TATGCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGA 1012

Qy       661 GGAAGGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGT 720
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1013 GGAAGGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGT 1072

Qy       721 GGCACTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCT 780
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1073 GGCACTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCT 1132

Qy       781 TTTGGAACAATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCTT 840
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1133 TTTGGAACAATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCTT 1192

Qy       841 GTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAAT 900
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1193 GTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAAT 1252

Qy       901 GCTGTGCCTCGTCCTATACCGGAGAAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGC 960
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1253 GCTGTGCCTCGTCCTATACCGGAGAAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGC 1312

Qy       961 CTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCT 1020
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1313 CTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCT 1372

Qy      1021 TTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTG 1080
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1373 TTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTG 1432

Qy      1081 TGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGAT 1140
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1433 TGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGAT 1492

Qy      1141 TACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATG 1200
            |||| ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1493 TACCCGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATG 1552

Qy      1201 TATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTT 1260
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1553 TATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTT 1612

Qy      1261 TACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATT 1317
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1613 TACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATT 1669
```

RESULT 9
US-10-616-263-25
; Sequence 25, Application US/10616263
; Publication No. US20040038276A1
; GENERAL INFORMATION:
; APPLICANT: Jacobs, Kenneth
; APPLICANT: McCoy, John M.
; APPLICANT: LaVallie, Edward R.
; APPLICANT: Collins-Racie, Lisa A.
; APPLICANT: Evans, Cheryl
; APPLICANT: Merberg, David
; APPLICANT: Treacy, Maurice
; APPLICANT: Agostino, Michael J.
; APPLICANT: Steininger II, Robert J.
; APPLICANT: Spaulding, Vikki
; APPLICANT: Wong, Gordon G.
; APPLICANT: Clark, Hilary
; APPLICANT: Fechtel, Kim
; APPLICANT: Genetics Institute, Inc.
; TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM
; FILE REFERENCE: 00766.000103.5
; CURRENT APPLICATION NUMBER: US/10/616,263
; CURRENT FILING DATE: 2003-07-08
; NUMBER OF SEQ ID NOS: 240
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 25
; LENGTH: 3370
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-616-263-25

Query Match 99.9%; Score 1315.4; DB 18; Length 3370;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1316; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Qy         1 ATGTACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAA 60
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       353 ATGTACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAA 412

Qy        61 GATTACTATCTTTGGACCTATAAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTT 120
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       413 GATTACTATCTTTGGACCTATAAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTT 472

Qy       121 GATGTTAATCTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATG 180
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       473 GATGTTAATCTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATG 532

Qy       181 TCATATTCAGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATAT 240
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       533 TCATATTCAGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATAT 592

Qy       241 CTTGATCCGTCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATG 300
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       593 CTTGATCCGTCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATG 652

Qy       301 ATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGAT 360
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       653 ATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGAT 712

Qy       361 TATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAA 420
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       713 TATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAA 772

Qy       421 TATGGATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTT 480
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       773 TATGGATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTT 832

Qy       481 TCCTCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTT 540
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Db        833 TCCTCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTT 892

Qy        541 GCAATGATAGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTC 600

Db        893 GCAATGATAGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTC 952

Qy        601 TATGCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGA 660

Db        953 TATGCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGA 1012

Qy        661 GGAAGGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGT 720

Db       1013 GGAAGGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGT 1072

Qy        721 GGCACTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCT 780

Db       1073 GGCACTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCT 1132

Qy        781 TTTGGAACAATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCTT 840

Db       1133 TTTGGAACAATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCTT 1192

Qy        841 GTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAAT 900

Db       1193 GTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAAT 1252

Qy        901 GCTGTGCCTCGTCCTATACCGGAGAAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGC 960

Db       1253 GCTGTGCCTCGTCCTATACCGGAGAAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGC 1312

Qy        961 CTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCT 1020

Db       1313 CTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCT 1372

Qy       1021 TTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTG 1080

Db       1373 TTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTG 1432

Qy       1081 TGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGAT 1140

Db       1433 TGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGAT 1492

Qy       1141 TACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATG 1200

Db       1493 TACCCGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATG 1552

Qy       1201 TATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTT 1260

Db       1553 TATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTT 1612

Qy       1261 TACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATT 1317

Db       1613 TACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATT 1669
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RESULT 10
US-10-205-219-122
; Sequence 122, Application US/10205219
; Publication No. US20030138803A1
; GENERAL INFORMATION:
;  APPLICANT: Warner-Lambert Company
;  APPLICANT:  Lee, Kevin
;  APPLICANT:  Dixon, Alistair
;  APPLICANT:  Brooksbank, Robert
;  APPLICANT:  Pinnock, Robert
;  TITLE OF INVENTION: Identification and Use of Molecules Implicated in Pain
;  FILE REFERENCE: WL-A-018200
;  CURRENT APPLICATION NUMBER: US/10/205,219
;  CURRENT FILING DATE:  2002-07-24
;  PRIOR APPLICATION NUMBER: GB 0118354.0
;  PRIOR FILING DATE: 2001-07-27
;  NUMBER OF SEQ ID NOS: 197
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 122
;   LENGTH: 3389
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   OTHER INFORMATION: EP70-P-iso
US-10-205-219-122

  Query Match             93.1%;  Score 1226;  DB 15;  Length 3389;
  Best Local Similarity   98.6%;  Pred. No. 9.4e-293;
  Matches 1300;  Conservative    0;  Mismatches   10;  Indels    8;  Gaps    6;

Qy          1 ATGTACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAA 60

Db        410 ATGTACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAA 469

Qy         61 GATTACTATCTTTGGACCTATAAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTT 120

Db        470 GATTACTATCTTTGGACCTATAAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTT 529

Qy        121 GATGTTAATCTAACTAGTGAAGGAAAGGTGAAACT-GGTTCCAAATACTAAAATCCAGAT 179

Db        530 GATGTTAATCTAACTAGTGAAGGAAAGGTGAAACTGGGTTCCAAATACTATAATCCAGAT 589

Qy        180 GTCATATTCAGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATA 239

Db        590 GTCATATTCAGTAAAATGG-AAAAGTCAGATGTGAAATTTGAAGATCGATTTGAC-AATA 647

Qy        240 TCTTGATCCGTCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCAT 299

Db        648 TCTTGATC--GTCCTTTTTTCACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCAT 705

Qy        300 GATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGA 359

Db        706 GATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGA 765

Qy        360 TTATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGA 419

Db        766 TTATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGA 825

Qy        420 ATATGGATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATT 479

Db        826 ATATGGATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATT 885

Qy        480 TTCCTCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGT 539

Db        886 TTCCTCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGT 945

Qy        540 TGCAATGATAGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGT 599

Db        946 TGCAATGATAGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGT 1005

Qy        600 CTATGCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGG 659

Db       1006 CTATGCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGG 1065

Qy        660 AGGAAGGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTG 719

Db       1066 AGGAAGGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATG--GGT 1123

Qy        720 TGGCACTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCC 779

Db       1124 GTGCACTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCC 1183

Qy        780 TTTTGGAACAATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCT 839

Db       1184 TTTTGGAACAATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCT 1243

Qy        840 TGTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAA 899

Db       1244 TGTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAA 1303
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Qy        900 TGCTGTGCCTCGTCCTATACCGGAGAAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTG 959
              ||||||||||||||||||||||||||||||||||||||||||| ||||||||||||||||
Db       1304 TGCTGTGCCTCGTCCTATACCGGAGAAAAAATGGTTCATGGAG-CTGCGGTTATTGTTTG 1362

Qy        960 CCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTC 1019
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1363 CCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTC 1422

Qy       1020 TTTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCT 1079
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1423 TTTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCT 1482

Qy       1080 GTGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGA 1139
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1483 GTGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGA 1542

Qy       1140 TTACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACAT 1199
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1543 TTACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACAT 1602

Qy       1200 GTATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATT 1259
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1603 GTATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATT 1662

Qy       1260 TTACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATT 1317
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1663 TTACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATT 1720
```

RESULT 11
US-10-956-157-2297
; Sequence 2297, Application US/10956157
; Publication No. US20050118625A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William
; TITLE OF INVENTION: NUCLEIC ACID ARRAYS FOR DETECTING GENE EXPRESSION ASSOCIATED WITH
; TITLE OF INVENTION: HUMAN OSTEOARTHRITIS AND HUMAN PROTEASES
; FILE REFERENCE: 031896-043000 (AM 101081)
; CURRENT APPLICATION NUMBER: US/10/956,157
; CURRENT FILING DATE: 2004-10-04
; NUMBER OF SEQ ID NOS: 319805
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2297
; LENGTH: 3389
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-956-157-2297

Query Match 93.1%; Score 1226; DB 21; Length 3389;
Best Local Similarity 98.6%; Pred. No. 9.4e-293;
Matches 1300; Conservative 0; Mismatches 10; Indels 8; Gaps 6;

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Qy          1 ATGTACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAA 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        410 ATGTACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAA 469

Qy         61 GATTACTATCTTTGGACCTATAAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        470 GATTACTATCTTTGGACCTATAAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTT 529

Qy        121 GATGTTAATCTAACTAGTGAAGGAAAGGTGAAACT-GGTTCCAAATACTAAAATCCAGAT 179
              |||||||||||||||||||||||||||||||||| ||||||||||||| |||||||||
Db        530 GATGTTAATCTAACTAGTGAAGGAAAGGTGAAACTGGGTTCCAAATACTATAATCCAGAT 589

Qy        180 GTCATATTCAGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATA 239
              |||||||||||||||||| |||||||||||||||||||||||||||||||| ||||
Db        590 GTCATATTCAGTAAAATGG-AAAAGTCAGATGTGAAATTTGAAGATCGATTTGAC-AATA 647

Qy        240 TCTTGATCCGTCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCAT 299
              ||||||||    | |||||  ||||||||||||||||||||||||||||||||||||
Db        648 TCTTGATC--GTCCTTTTTTCACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCAT 705
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Qy        300 GATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGA 359
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        706 GATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGA 765

Qy        360 TTATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGA 419
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        766 TTATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGA 825

Qy        420 ATATGGATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATT 479
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        826 ATATGGATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATT 885

Qy        480 TTCCTCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGT 539
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        886 TTCCTCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGT 945

Qy        540 TGCAATGATAGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGT 599
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        946 TGCAATGATAGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGT 1005

Qy        600 CTATGCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGG 659
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1006 CTATGCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGG 1065

Qy        660 AGGAAGGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTG 719
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||  |
Db       1066 AGGAAGGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATG--GGT 1123

Qy        720 TGGCACTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCC 779
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1124 GTGCACTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCC 1183

Qy        780 TTTTGGAACAATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCT 839
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1184 TTTTGGAACAATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCT 1243

Qy        840 TGTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAA 899
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1244 TGTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAA 1303

Qy        900 TGCTGTGCCTCGTCCTATACCGGAGAAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTG 959
              ||||||||||||||||||||||||||||||||||||||||||| ||||||||||||||||
Db       1304 TGCTGTGCCTCGTCCTATACCGGAGAAAAAATGGTTCATGGAG-CTGCGGTTATTGTTTG 1362

Qy        960 CCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTC 1019
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1363 CCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTC 1422

Qy       1020 TTTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCT 1079
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1423 TTTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCT 1482

Qy       1080 GTGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGA 1139
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1483 GTGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGA 1542

Qy       1140 TTACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACAT 1199
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1543 TTACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACAT 1602

Qy       1200 GTATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATT 1259
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1603 GTATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATT 1662

Qy       1260 TTACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATT 1317
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1663 TTACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATT 1720
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RESULT 12
US-10-062-674-1697
; Sequence 1697, Application US/10062674
; Publication No. US20040005559A1

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; GENERAL INFORMATION:
;  APPLICANT: Loring, Jeanne F.; Kaser, Matthew R.
;  TITLE OF INVENTION: MARKERS OF NEURONAL DIFFERENTIATION AND MORPHOGENESIS
;  FILE REFERENCE: PA-0026-1 CIP
;  CURRENT APPLICATION NUMBER: US/10/062,674
;  CURRENT FILING DATE:  2002-01-30
;  PRIOR APPLICATION NUMBER: US 09/625,102
;  PRIOR FILING DATE: 2000-07-24
;  NUMBER OF SEQ ID NOS: 2217
;  SOFTWARE: PERL Program
; SEQ ID NO 1697
;   LENGTH: 6197
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   OTHER INFORMATION: Incyte ID No. US20040005559A1 233927.4
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1) ... (6197)
;   OTHER INFORMATION: a, t, c, g, or other
US-10-062-674-1697

  Query Match             53.9%;  Score 709.6;  DB 17;  Length 6197;
  Best Local Similarity   82.4%;  Pred. No. 1.1e-164;
  Matches 1135;  Conservative    0;  Mismatches  165;  Indels   77;  Gaps   25;

Qy         15 TTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATG-GAGAAGATTACTATCTTT  73
Db        388 TTACCCNATATGGGGTATTGTTGGTGAGGCTGATGAAAATGCGAGAAGATTACTATCTGT  447

Qy         74 GGACC--TATAAAAAACTTGAAAT--AGGTTTTAATGGAAATCGAATTGT--------TG  121
Db        448 TGGACCGTATAAAAAACTTGAAATTAGGTTTTAACTGGAAATCGGAAGTTGTTGTATGTT  507

Qy        122 ATGTTAATCTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATGT  181
Db        508 ATATCTAACTACGTGAAGAGAAAGAGTGAAACATGGTTCCAAATACTAAAATCCAGATGT  567

Qy        182 CATATTCAGTAAAATGGAAAAAGTCAGA---TGTGAAATTTGAAGATCGATTTGACAAAT  238
Db        568 CATATTCAGTAAAAGTGGAAACAAGTCAGATTGTGAAATTTGAAGATCGATTTGACAAAT  627

Qy        239 ATCTTGATCCGTCC-TTTTTTCAACATCGGATTCATTGGTTTTCAA-----TTTTCAACT  292
Db        628 ATCTTGATCCGTCCGCTTTTTCAACATCGGATTCATTGGTTTCTCACATGTTGTCAACTC  687

Qy        293 CCTTCATGAT-GGTGATCTTCTTGGT-GGGCTTAGTTTCAATGATTTTAATGAGAACA--  348
Db        688 CGTTCATGATGGGTGATCTTCTTGGTGGGGCTTAGTTTCAATAGATTTTAATAGAGAACA  747

Qy        349 -TTAAGAAAAGATTATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGA  407
Db        748 TTAAGAAAAAGATTATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGA  807

Qy        408 CCTAGGAGATGAATATG---GATGGAAACAGGTGCAT--GGAGATGTATTTAGACCAT-C  461
Db        808 CCTAGGAGATGAATATGTGATGGGAAAACAGGTGCATTGGAAGATGTATTTAGACCATCC  867

Qy        462 AAGTCACCCACTGATATTTTCCTCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTC  521
Db        868 AAGTCACCCACTGATATTTTCCTCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTC  927

Qy        522 TCTCATCGTTATTATTG-TTGCAATGATAGAAGATTTATATACTGAGAGGGGATCAATGC  580
Db        928 TCTCATCGGTAATAATGGTGGCAATGATAGAAGATTAATATACTGAGAGGGGATCAATGC  987

Qy        581 TCAGTACAGCCATATTTGTCTATGC-TGCTACGTCT-CCAGTGAATGGTTATTTTGGAGG  638
Db        988 TCAGTACAGCCATATTTGTCTAAGCTTGCTACGTCTCCCAGTGAATGGTTATTTTGGAGG 1047

Qy        639 AAGTCTGTATGCTAGACAAGGAGGAAGGAGATGGATAAAGCA--------GATGTTTATT  690
Db       1048 AAGCGATACTAAAAGGAGGAAAGGGAGAATTGGGCTATAAAGCCAGAATGGTTTAATTTG 1107

Qy        691 GGGGCATTCC------TTATCCCAGCTATGGTGTGTGGCACTGCC-----------TTCT  733
Db       1108 GGGGCATTCCCTTTAATTTCCCAAGCTAATTGGGTTGTTGTGGCCAACTTGCCCTTTCTT 1167

Qy        734 TCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCTTTTGGAAC-AATG  792
Db       1168 TCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCTTTTGGGACAAATG 1227

Qy        793 GTGGCCGTTTGTTGCATCTG-TTTTTTTGTTATTCTTCCTCTAAATCTTGTTGGTACAAT  851
Db       1228 GTGGCCGTTTGTTGCATCTGTTTTTTTTGTTATTCTTCCTCTAAATCTTGTTGGTACAAT 1287

Qy        852 ACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAATGCTGTGCCTC-  910
Db       1288 ACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAATGCTGTGCCTCT 1347

Qy        911 GTCCTATACCGGAGA----AAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGCCTGGGT  966
Db       1348 GTCCTATACCGGAGAACACACAGATGGTACATGGAGCCTGCGGTTATTGTTTGCCTGGGT 1407

Qy        967 GGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCTTTCTGG 1026
Db       1408 GGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCTTTCTGG 1467

Qy       1027 GCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTGTGCATT 1086
Db       1468 GCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTGTGCATT 1527

Qy       1087 GTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTACCGG 1146
Db       1528 GTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTACCGG 1587

Qy       1147 TGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATGTATTCC 1206
Db       1588 TGGCAATGGACAAGTTTTCTCTCTGCTGGATCAACTGCAATCTATGTTTACATGTATTCC 1647

Qy       1207 TTTTACTACTATTTTTT-------CAAAACAAAGATGTATGGCTTATTTCAAACATCATT 1259
Db       1648 TTTTACTACTATGTTTTTCGAAAACAAGAGATGTATGTGCTTATTGTCAAACATCTATTT 1707

Qy       1260 TTACTTTGGATATATGGC--GGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCG 1314
Db       1708 TACATTTGGATATATGGCGTGTATATTAGCACAGTCCTTGGGGATATATGTGTGGAG 1764

RESULT 13
US-10-264-237-1414
; Sequence 1414, Application US/10264237
; Publication No. US20040009491A1
; GENERAL INFORMATION:
;  APPLICANT: Birse et al.
;  TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
;  FILE REFERENCE: PA131P1
;  CURRENT APPLICATION NUMBER: US/10/264,237
;  CURRENT FILING DATE:  2002-10-04
;  PRIOR APPLICATION NUMBER: PCT/US01/16450
;  PRIOR FILING DATE: 2001-05-18
;  PRIOR APPLICATION NUMBER: US 60/205,515
;  PRIOR FILING DATE: 2000-05-19
;  NUMBER OF SEQ ID NOS: 2876
;  SOFTWARE: PatentIn Ver. 3.1
; SEQ ID NO 1414
;   LENGTH: 1070
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (34)..(34)
;   OTHER INFORMATION: n equals a,t,g, or c
;   FEATURE:
;   NAME/KEY: misc_feature
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;   LOCATION: (40)..(40)
;   OTHER INFORMATION: n equals a,t,g, or c
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (525)..(525)
;   OTHER INFORMATION: n equals a,t,g, or c
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;   NAME/KEY: misc_feature
;   LOCATION: (529)..(529)
;   OTHER INFORMATION: n equals a,t,g, or c
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (557)..(557)
;   OTHER INFORMATION: n equals a,t,g, or c
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (837)..(837)
;   OTHER INFORMATION: n equals a,t,g, or c
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (912)..(912)
;   OTHER INFORMATION: n equals a,t,g, or c
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;   NAME/KEY: misc_feature
;   LOCATION: (956)..(956)
;   OTHER INFORMATION: n equals a,t,g, or c
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (965)..(966)
;   OTHER INFORMATION: n equals a,t,g, or c
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1025)..(1025)
;   OTHER INFORMATION: n equals a,t,g, or c
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1047)..(1047)
;   OTHER INFORMATION: n equals a,t,g, or c
US-10-264-237-1414

  Query Match            44.8%;  Score 590.4;  DB 17;  Length 1070;
  Best Local Similarity  91.5%;  Pred. No. 1.5e-135;
  Matches  677;  Conservative    0;  Mismatches   10;  Indels   53;  Gaps    3;

Qy        631 TTTGGAGGAAGTCTGTATGCTAGACAAGGAGGAAGGAGATGGATAAAGCAGATGTTTATT 690
              ||||||||   ||| ||||  ||||||||||||||| ||||||||||||||||||||||
Db         20 TTTGGAGGCTCTCTNTATGANAGACAAGGAGGAAGGACATGGATAAAGCAGATGTTTATT 79

Qy        691 GGGGCATTCCTTATCCCAGCTATGGTGTGTGGCACTGCCTTCTTCATCAATTTCATAGCC 750
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         80 GGGGCATTCCTTATCCCAGCTATGGTGTGTGGCACTGCCTTCTTCATCAATTTCATAGCC 139

Qy        751 ATTTATTACCATGCTTCAAGAGCCATTCCTTTTGGAACAATGGTGGCCGTTTGTTGCATC 810
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        140 ATTTATTACCATGCTTCAAGAGCCATTCCTTTTGGAACAATGGTGGCCGTTTGTTGCATC 199

Qy        811 TGTTTTTTTGTTATTCTTCCTCTAAATCTTGTTGGTACAATACTTGGCCGAAATCTGTCA 870
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        200 TGTTTTTTTGTTATTCTTCCTCTAAATCTTGTTGGTACAATACTTGGCCGAAATCTGTCA 259

Qy        871 GGTCAGCCCAACTTTCCTTGTCGTGTCAATGCTGTGCCTCGTCCTATACCGGAGAAAAAA 930
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        260 GGTCAGCCCAACTTTCCTTGTCGTGTCAATGCTGTGCCTCGTCCTATACCGGAGAAAAAA 319

Qy        931 TGGTTCATGGAGCCTGCGGTTATTGTTTGCCTGGGTGGAATTTTACCTTTTGGTTCAATC 990
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        320 TGGTTCATGGAGCCTGCGGTTATTGTTTGCCTGGGTGGAATTTTACCTTTTGGTTCAATC 379

Qy        991 TTTATTGAAATGTATTTCATCTTCACGTCTTTCTGGGCATATAAGATCTATTATGTCTAT 1050
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        380 TTTATTGAAATGTATTTCATCTTCACGTCTTTCTGGGCATATAAGATCTATTATGTCTAT 439

Qy       1051 GGCTTCATGATGCTGGTGCTGGTTATCCTGTGCATTGTGACTGTCTGTGTGACTATTGTG 1110
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        440 GGCTTCATGATGCTGGTGCTGGTTATCCTGTGCATTGTGACTGTCTGTGTGACTATTGTG 499

Qy       1111 TGCACATATTTTCTACTAAATGCAGAA--GATTACCGGT---------------------- 1147
              |||||||||||||||||||||||||| |   |||||||||
Db        500 TGCACATATTTTCTACTAAATGCAGNAAGNATTACCGGTGTGCCATTCATTCAAAAGNAG 559

Qy       1148 -----------------------------GGCAATGGACAAGTTTTCTCTCTGCTGCATC 1178
                                            ||||||||||||||||||||||||||||||
Db        560 ATTTATCTTCTTTCCCCCTCCCGCCACCAGGCAATGGACAAGTTTTCTCTCTGCTGCATC 619

Qy       1179 AACTGCAATCTATGTTTACATGTATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTA 1238
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        620 AACTGCAATCTATGTTTACATGTATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTA 679

Qy       1239 TGGCTTATTTCAAACATCATTTTACTTTGGATATATGGCGGTATTTAGCACAGCCTT-GG 1297
              |||||||||||||||||||||||||||||||||||||||||||||| |||||||| ||
Db        680 TGGCTTATTTCAAACATCATTTTACTTTGGATATATGGCGGTATTTAGTACAGCCTTGGG 739

Qy       1298 GGATAATGTGTGGAGCGATT 1317
              ||||||||||||||||||||
Db        740 GGATAATGTGTGGAGCGATT 759


RESULT 14
US-10-242-535A-2630
; Sequence 2630, Application US/10242535A
; Publication No. US20040013663A1
; GENERAL INFORMATION:
;  APPLICANT: ChondroGene Inc.
;  APPLICANT:  Liew, C.C.
;  TITLE OF INVENTION: Compositions and Methods Relatiing to Osteoarthritis
;  FILE REFERENCE: 4231/2005
;  CURRENT APPLICATION NUMBER: US/10/242,535A
;  CURRENT FILING DATE:  2002-09-12
;  PRIOR APPLICATION NUMBER: US 10/085,783
;  PRIOR FILING DATE: 2002-02-28
;  PRIOR APPLICATION NUMBER: US 60/305,340
;  PRIOR FILING DATE: 2001-07-13
;  PRIOR APPLICATION NUMBER: US 60/275,017
;  PRIOR FILING DATE: 2001-03-12
;  PRIOR APPLICATION NUMBER: US 60/271,955
;  PRIOR FILING DATE: 2001-02-28
;  NUMBER OF SEQ ID NOS: 58994
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2630
;   LENGTH: 560
;   TYPE: DNA
;   ORGANISM: Human
US-10-242-535A-2630

  Query Match            40.8%;  Score 537.4;  DB 17;  Length 560;
  Best Local Similarity  99.6%;  Pred. No. 1.4e-122;
  Matches  549;  Conservative    0;  Mismatches    1;  Indels    1;  Gaps    1;

Qy        768 AAGAGCCATTCCTTTTGGAACAATGGTGGCCGTTTGTTGCATCTGTTTTTTTTGTTATTCT 827
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 AAGAGCCATTCCTTTTGGAACAATGGTGGCCGTTTGTTGCATCTGTTTTTTTTGTTATTCT 60

Qy        828 TCCTCTAAATCTTGTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCC 887
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 TCCTCTAAATCTTGTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCC 120

Qy        888 TTGTCGTGTCAATGCTGTGCCTCGTCCTATACCGGAGAAAAAATGGTTCATGGAGCCTGC 947
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 TTGTCGTGTCAATGCTGTGCCTCGTCCTATACCGGAGAAAAAATGGTTCATGGAGCCTGC 180

Qy        948 GGTTATTGTTTGCCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTT 1007
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 GGTTATTGTTTGCCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTT 240

Qy       1008 CATCTTCACGTCTTTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGT 1067
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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Db        241 CATCTTCACGTCTTTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGT 300

Qy       1068 GCTGGTTATCCTGTGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACT 1127
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        301 GCTGGTTATCCTGTGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACT 360

Qy       1128 AAATGCAGAAGATTACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAAT 1187
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        361 AAATGCAGAAGATTACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAAT 420

Qy       1188 CTATGTTTACATGTATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATT 1247
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        421 CTATGTTTACATGTATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATT 480

Qy       1248 TCAAACATCATTTTACTTTGGATATATGGCGGTATTTAGCACAGCCTT-GGGGATAATGT 1306
             |||||||||||||||||||||||||||||||||||||||||||||||| ||||||||||||
Db        481 TCAAACATCATTTTACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGGATAATGT 540

Qy       1307 GTGGAGCGATT 1317
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Db        541 GTGGAGCGAAT 551
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RESULT 15
US-10-085-783A-2630
; Sequence 2630, Application US/10085783A
; Publication No. US20040037841A1
; GENERAL INFORMATION:
; APPLICANT: ChondroGene Inc.
; APPLICANT: Liew, C.C.
; TITLE OF INVENTION: Compositions and Methods Relatiing to Osteoarthritis
; FILE REFERENCE: 4231/2002
; CURRENT APPLICATION NUMBER: US/10/085,783A
; CURRENT FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: US 60/305,340
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/275,017
; PRIOR FILING DATE: 2001-03-12
; PRIOR APPLICATION NUMBER: US 60/271,955
; PRIOR FILING DATE: 2001-02-28
; NUMBER OF SEQ ID NOS: 58994
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2630
; LENGTH: 560
; TYPE: DNA
; ORGANISM: Human
US-10-085-783A-2630

Query Match 40.8%; Score 537.4; DB 18; Length 560;
Best Local Similarity 99.6%; Pred. No. 1.4e-122;
Matches 549; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

```
Qy        768 AAGAGCCATTCCTTTTGGAACAATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCT 827
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 AAGAGCCATTCCTTTTGGAACAATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCT 60

Qy        828 TCCTCTAAATCTTGTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCC 887
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 TCCTCTAAATCTTGTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCC 120

Qy        888 TTGTCGTGTCAATGCTGTGCCTCGTCCTATACCGGAGAAAAAAATGGTTCATGGAGCCTGC 947
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 TTGTCGTGTCAATGCTGTGCCTCGTCCTATACCGGAGAAAAAAATGGTTCATGGAGCCTGC 180

Qy        948 GGTTATTGTTTGCCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTT 1007
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 GGTTATTGTTTGCCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTT 240

Qy       1008 CATCTTCACGTCTTTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGT 1067
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 CATCTTCACGTCTTTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGT 300

Qy       1068 GCTGGTTATCCTGTGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACT 1127
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        301 GCTGGTTATCCTGTGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACT 360

Qy       1128 AAATGCAGAAGATTACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAAT 1187
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        361 AAATGCAGAAGATTACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAAT 420

Qy       1188 CTATGTTTACATGTATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATT 1247
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Db        421 CTATGTTTACATGTATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATT 480

Qy       1248 TCAAACATCATTTTACTTTGGATATATGGCGGTATTTAGCACAGCCTT-GGGGATAATGT 1306
              |||||||||||||||||||||||||||||||||||||||||||||||| ||||||||||||
Db        481 TCAAACATCATTTTACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGGATAATGT 540

Qy       1307 GTGGAGCGATT 1317
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Db        541 GTGGAGCGAAT 551
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Job time : 1246.21 secs

GenCore version 5.1.6

OM nucleic - nucleic search, using sw model

Run on: August 13, 2005, 13:05:21 ; Search time 309.708 Seconds
(without alignments)
6958.083 Million cell updates/sec

Title: US-09-319-724B-2
Perfect score: 1317
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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Result No.	Score	% Query Match	Length	DB	ID	Description
	1	1317	100.0	1827	4	US-09-786-681A-3	Sequence 3, Appli
	2	1317	100.0	2072	4	US-09-786-681A-1	Sequence 1, Appli
	3	444	33.7	444	4	US-09-621-976-18829	Sequence 18829, A
	4	383.4	29.1	440	4	US-09-513-999C-3708	Sequence 3708, Ap
c	5	369.8	28.1	771	4	US-09-270-767-679	Sequence 679, App
c	6	369.8	28.1	771	4	US-09-270-767-15961	Sequence 15961, A
	7	209	15.9	2391	4	US-09-949-016-3623	Sequence 3623, Ap
	8	209	15.9	2805	3	US-08-959-004-6	Sequence 6, Appli
	9	193	14.7	571	4	US-09-270-767-28434	Sequence 28434, A
	10	193	14.7	1151	4	US-09-270-767-12633	Sequence 12633, A
	11	114.6	8.7	726	4	US-09-248-796A-6208	Sequence 6208, Ap
	12	100	7.6	262	4	US-09-313-294A-2292	Sequence 2292, Ap
c	13	91.6	7.0	769	3	US-09-385-982-530	Sequence 530, App
	14	73	5.5	433	4	US-09-513-999C-3502	Sequence 3502, Ap
c	15	64.6	4.9	302	4	US-09-702-705-1002	Sequence 1002, Ap
c	16	64.6	4.9	302	4	US-09-736-457-1002	Sequence 1002, Ap
c	17	64.6	4.9	302	4	US-09-614-124B-1002	Sequence 1002, Ap
c	18	64.6	4.9	302	4	US-09-671-325-1002	Sequence 1002, Ap
c	19	64.6	4.9	302	4	US-09-658-824-1002	Sequence 1002, Ap
	20	56.4	4.3	279	4	US-09-313-294A-4533	Sequence 4533, Ap
	21	51.8	3.9	7218	1	US-08-232-463-14	Sequence 14, Appl
	22	51.2	3.9	995	4	US-09-270-767-14715	Sequence 14715, A
	23	49.2	3.7	601	4	US-09-949-016-127246	Sequence 127246,
	24	49.2	3.7	65561	4	US-09-949-016-15365	Sequence 15365, A
	25	47.8	3.6	299	4	US-09-313-294A-772	Sequence 772, App
	26	45.6	3.5	519	1	US-08-686-878A-20	Sequence 20, Appl
	27	45.6	3.5	519	3	US-09-175-928-20	Sequence 20, Appl
c	28	44.6	3.4	99500	3	US-09-798-096-10	Sequence 10, Appl
	29	44.4	3.4	1141	4	US-09-806-708B-22	Sequence 22, Appl
	30	43	3.3	268	4	US-09-313-294A-909	Sequence 909, App
c	31	42.4	3.2	453	4	US-09-270-767-9089	Sequence 9089, Ap
c	32	42.4	3.2	453	4	US-09-270-767-24371	Sequence 24371, A
c	33	42.2	3.2	1141	4	US-09-806-708B-22	Sequence 22, Appl
	34	42	3.2	640681	4	US-09-790-988-1	Sequence 1, Appli
	35	41	3.1	601	4	US-09-949-016-103893	Sequence 103893,
c	36	41	3.1	52314	4	US-09-949-016-14622	Sequence 14622, A
	37	40.8	3.1	274	4	US-09-313-294A-3811	Sequence 3811, Ap
c	38	40.8	3.1	7218	1	US-08-232-463-14	Sequence 14, Appl
	39	40.6	3.1	601	4	US-09-949-016-103894	Sequence 103894,
	40	40.6	3.1	187169	4	US-09-949-016-12776	Sequence 12776, A
	41	40.6	3.1	191569	4	US-09-949-016-15940	Sequence 15940, A
	42	40.4	3.1	238815	4	US-09-949-016-16274	Sequence 16274, A
	43	40	3.0	27430	4	US-09-949-016-13402	Sequence 13402, A
	44	40	3.0	63760	4	US-09-949-016-14087	Sequence 14087, A
	45	40	3.0	63760	4	US-09-949-016-14088	Sequence 14088, A

ALIGNMENTS

RESULT 1
US-09-786-681A-3
; Sequence 3, Application US/09786681A
; Patent No. 6692926
; GENERAL INFORMATION:
; APPLICANT: HIDAKA , Jun et al.
; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING I
; TITLE OF INVENTION: BINDING ACTIVITIES, AND THEIR USES
; FILE REFERENCE: 0020-4827P
; CURRENT APPLICATION NUMBER: US/09/786,681A
; CURRENT FILING DATE: 2001-01-24
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 3
; LENGTH: 1827
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (11)..(1747)
US-09-786-681A-3

Query Match 100.0%; Score 1317; DB 4; Length 1827;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 ATGTACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAA 60
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Db        374 ATGTACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAA 433

Qy         61 GATTACTATCTTTGGACCTATAAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTT 120
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Db        434 GATTACTATCTTTGGACCTATAAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTT 493

Qy        121 GATGTTAATCTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATG 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        494 GATGTTAATCTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATG 553

Qy        181 TCATATTCAGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATAT 240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        554 TCATATTCAGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATAT 613

Qy        241 CTTGATCCGTCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATG 300
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Db        614 CTTGATCCGTCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATG 673

Qy        301 ATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGAT 360
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        674 ATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGAT 733
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Qy        361 TATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAA 420
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Db        734 TATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAA 793

Qy        421 TATGGATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTT 480
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Db        794 TATGGATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTT 853

Qy        481 TCCTCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTT 540
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        854 TCCTCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTT 913

Qy        541 GCAATGATAGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTC 600
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Db        914 GCAATGATAGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTC 973

Qy        601 TATGCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGA 660
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        974 TATGCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGA 1033

Qy        661 GGAAGGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGT 720
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1034 GGAAGGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGT 1093

Qy        721 GGCACTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCT 780
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Db       1094 GGCACTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCT 1153

Qy        781 TTTGGAACAATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCTT 840
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1154 TTTGGAACAATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCTT 1213

Qy        841 GTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAAT 900
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1214 GTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAAT 1273

Qy        901 GCTGTGCCTCGTCCTATACCGGAGAAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGC 960
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1274 GCTGTGCCTCGTCCTATACCGGAGAAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGC 1333

Qy        961 CTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCT 1020
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1334 CTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCT 1393

Qy       1021 TTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTG 1080
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1394 TTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTG 1453

Qy       1081 TGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGAT 1140
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Db       1454 TGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGAT 1513

Qy       1141 TACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATG 1200
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Db       1514 TACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATG 1573

Qy       1201 TATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTT 1260
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Db       1574 TATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTT 1633

Qy       1261 TACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATT 1317
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Db       1634 TACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATT 1690


RESULT 2
US-09-786-681A-1
; Sequence 1, Application US/09786681A
; Patent No. 6692926
; GENERAL INFORMATION:
;  APPLICANT: HIDAKA , Jun et al.
;  TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING L
;  TITLE OF INVENTION:  BINDING ACTIVITIES, AND THEIR USES
;  FILE REFERENCE: 0020-4827P
;  CURRENT APPLICATION NUMBER: US/09/786,681A
;  CURRENT FILING DATE:  2001-01-24
;  NUMBER OF SEQ ID NOS: 7
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1
;   LENGTH: 2072
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: CDS
;   LOCATION: (49)..(1794)
US-09-786-681A-1

  Query Match             100.0%;  Score 1317;  DB 4;  Length 2072;
  Best Local Similarity   100.0%;  Pred. No. 0;
  Matches 1317;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 ATGTACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAA 60
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Db        421 ATGTACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAA 480

Qy         61 GATTACTATCTTTGGACCTATAAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        481 GATTACTATCTTTGGACCTATAAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTT 540

Qy        121 GATGTTAATCTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATG 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        541 GATGTTAATCTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATG 600

Qy        181 TCATATTCAGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATAT 240
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Db        601 TCATATTCAGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATAT 660

Qy        241 CTTGATCCGTCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATG 300
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Db        661 CTTGATCCGTCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATG 720

Qy        301 ATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGAT 360
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        721 ATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGAT 780

Qy        361 TATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAA 420
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Db        781 TATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAA 840

Qy        421 TATGGATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTT 480
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Db        841 TATGGATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTT 900

Qy        481 TCCTCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTT 540
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Db        901 TCCTCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTT 960

Qy        541 GCAATGATAGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTC 600
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Db        961 GCAATGATAGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTC 1020

Qy        601 TATGCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGA 660
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Db       1021 TATGCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGA 1080

Qy        661 GGAAGGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGT 720
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Db       1081 GGAAGGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGT 1140

Qy        721 GGCACTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCT 780
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1141 GGCACTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCT 1200

Qy        781 TTTGGAACAATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCTT 840
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1201 TTTGGAACAATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCTT 1260
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Qy        841 GTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAAT 900
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Db       1261 GTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAAT 1320

Qy        901 GCTGTGCCTCGTCCTATACCGGAGAAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGC 960
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Db       1321 GCTGTGCCTCGTCCTATACCGGAGAAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGC 1380

Qy        961 CTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCT 1020
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Db       1381 CTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCT 1440

Qy       1021 TTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTG 1080
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Db       1441 TTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTG 1500

Qy       1081 TGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGAT 1140
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Db       1501 TGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGAT 1560

Qy       1141 TACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATG 1200
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Db       1561 TACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATG 1620

Qy       1201 TATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTT 1260
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Db       1621 TATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTT 1680

Qy       1261 TACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATT 1317
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Db       1681 TACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATT 1737
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RESULT 3
US-09-621-976-18829
; Sequence 18829, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 18829
; LENGTH: 444
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-621-976-18829

Query Match 33.7%; Score 444; DB 4; Length 444;
Best Local Similarity 100.0%; Pred. No. 1.2e-108;
Matches 444; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy        130 CTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATGTCATATTCA 189
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Db          1 CTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATGTCATATTCA 60

Qy        190 GTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATATCTTGATCCG 249
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 GTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATATCTTGATCCG 120

Qy        250 TCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATGATGGTGATC 309
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 TCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATGATGGTGATC 180

Qy        310 TTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGATTATGCTCGG 369
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 TTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGATTATGCTCGG 240

Qy        370 TACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAATATGGATGG 429
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 TACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAATATGGATGG 300

Qy        430 AAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTTTCCTCTCTG 489
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Db        301 AAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTTTCCTCTCTG 360

Qy        490 ATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTTGCAATGATA 549
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Db        361 ATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTTGCAATGATA 420

Qy        550 GAAGATTTATATACTGAGAGGGGA 573
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Db        421 GAAGATTTATATACTGAGAGGGGA 444
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RESULT 4
US-09-513-999C-3708
; Sequence 3708, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6783961
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 3708
; LENGTH: 440
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 180..440
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 151
; OTHER INFORMATION: m=a or c
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 155
; OTHER INFORMATION: s=g or c
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 162
; OTHER INFORMATION: k=g or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 184
; OTHER INFORMATION: n=a, g, c or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 323
; OTHER INFORMATION: w=a or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 343
; OTHER INFORMATION: n=a, g, c or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 397
; OTHER INFORMATION: m=a or c
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 400

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;   OTHER INFORMATION: m=a or c
;   FEATURE:
;   NAME/KEY: UNSURE
;   LOCATION: 2
;   OTHER INFORMATION: Xaa=Lys or Met or Arg or Thr
;   FEATURE:
;   NAME/KEY: UNSURE
;   LOCATION: 55
;   OTHER INFORMATION: Xaa=Ala or Asp or Gly or Val
;   FEATURE:
;   NAME/KEY: UNSURE
;   LOCATION: 73
;   OTHER INFORMATION: Xaa=Ala or Asp
;   FEATURE:
;   NAME/KEY: UNSURE
;   LOCATION: 74
;   OTHER INFORMATION: Xaa=Lys or Thr
US-09-513-999C-3708

  Query Match             29.1%;  Score 383.4;  DB 4;  Length 440;
  Best Local Similarity   95.7%;  Pred. No. 1.7e-92;
  Matches  420;  Conservative    5;  Mismatches    8;  Indels    6;  Gaps    3;

Qy        218 TTGAAGATCGATTTGACAAATATCTTGATCCGTCCTTTTTTCAACATCGGATTCATTGGT 277
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Db          2 TTGAAGATCGATTTGACAAATATCTTGATCCGTCCTTTTTTCAACATCGGATTCATTGGT 61

Qy        278 TTTCAATTTTCAACTCCTTCATGATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTT 337
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Qy        338 TAATGAGAACATTAAGAAAAG----ATTATGCTCGGTACAGTAAAGAGGAAGAAATGGAT 393
              |||||||||||||||||||||    | |     :||||||:||||||||||||||||||
Db        122 TAATGAGAACATTAAGAAAAGAATTAATGMCTCSGGTACAKTAAAGAGGAAGAAATGGAT 181

Qy        394 GAT-ATGGATAGAGACCTAGGAGATGAATATGGATGGAAACAGGTGCATGGAGATGTATT 452
              ||  ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        182 GANGATGGATAGAGACCTAGGAGATGAATATGGATGGAAACAGGTGCATGGAGATGTATT 241

Qy        453 TAGACCATCAAGTCACCCACTGATATTTTCCTCTCTGATTGGTTCTGGATGTCAGATATT 512
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        242 TAGACCATCAAGTCACCCACTGATATTTTCCTCTCTGATTGGTTCTGGATGTCAGATATT 301

Qy        513 TGCTGTGTCTCTCATCGTTATTATTGTTGCAATGATAGAAGATTTATATACTGAGAGGGG 572
              ||||||||||||||||||||:||||||||||||||||| ||||||||||||||||||||
Db        302 TGCTGTGTCTCTCATCGTTATWATTGTTGCAATGATAGAAGNTTTATATACTGAGAGGGG 361

Qy        573 ATCAATGCTCAGTACAGCCATATTTGTCTATGCTGCTACGTCT-CCAGTGAATGGTTATT 631
              ||||||||||||||||||||||||||||||||:||:|||| ||||||||||||||||||
Db        362 ATCAATGCTCAGTACAGCCATATTTGTCTATGCTGMTAMGTCTCCCAGTGAATGGTTATT 421

Qy        632 TTGGAGGAAGTCTGTATGC 650
              ||||||||||||||||||
Db        422 TTGGAGGAAGTCTGTATGC 440


RESULT 5
US-09-270-767-679/c
; Sequence 679, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 679
;   LENGTH: 771
;   TYPE: DNA
;   ORGANISM: Drosophila melanogaster
US-09-270-767-679

  Query Match             28.1%;  Score 369.8;  DB 4;  Length 771;
  Best Local Similarity   67.7%;  Pred. No. 9.5e-89;
  Matches  518;  Conservative    0;  Mismatches  247;  Indels    0;  Gaps    0;

Qy        190 GTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATATCTTGATCCG 249
              || || |||||         | ||| | ||  |  ||||||| ||||| || || |||||
Db        765 GTCAACTGGAAGCCCAGCAAGGTGGAGTTCAAGAATCGATTCGACAAGTACCTGGATCCC 706

Qy        250 TCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATGATGGTGATC 309
              ||| || || ||  |||| || |||||    || ||||||  |||||||||||| |||
Db        705 AACTTCTTCCAGCACAGGATCCACTGGTTCAGCATCTTCAACAGCTTCATGATGGTCATC 646

Qy        310 TTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGATTATGCTCGG 369
              ||| |||||||  | || || |||||| | ||| ||||  |  | || ||||||||||||
Db        645 TTCCTGGTGGGTCTGGTGTCCATGATTCTGATGCGAACTCTGCGCAAGGATTATGCTCGG 586

Qy        370 TACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAATATGGATGG 429
              |||||||| || || ||||| || || |||||  |||| || || |||||||| || |||
Db        585 TACAGTAAGGACGAGGAAATCGACGACATGGAGCGAGATCTTGGTGATGAATACGGCTGG 526

Qy        430 AAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTTTCCTCTCTG 489
              || |||||||||| ||||| ||  |  |  |      || ||||| | || ||  |  ||
Db        525 AAGCAGGTGCATGGCGATGTCTTCCGTTCTCCGCCCAACACACTGCTCTTCTCGGCGTTG 466

Qy        490 ATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTTGCAATGATA 549
              | ||  |||||  ||  |  || | ||    ||  || || ||  | || ||  |
Db        465 GTGGGCGCTGGATACCAACTGATTTCGGTTGTATTCTGTGTGATCATGTTCGCCATAGTT 406

Qy        550 GAAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTCTATGCTGCT 609
              |  || || || || ||  | || || |||||    || || |||||||| ||||| ||
Db        405 GGTGAATTGTACACGGAACGCGGCTCCATGCTGTCCACGGCTATATTTGTGTATGCCGCC 346

Qy        610 ACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGAGGAAGGAGA 669
              || || ||| | ||||| || |||||||    || |||||  | |  || ||| | |
Db        345 ACCTCACCAATCAATGGATACTTTGGAGGATCGCTCTATGCCCGCCTGGGTGGACGCATG 286

Qy        670 TGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGTGGCACTGCC 729
              |||||    |||||| |  |    || ||    | ||||     ||||| ||||| ||
Db        285 TGGATCCGACAGATGCTGGTGTCCGCTTTTACAGTTCCAGTGGCTGTGTGCGGCACGGCT 226

Qy        730 TTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCTTTTGGAACA 789
              ||| | ||||| ||||| ||||||   || || || || |||||||||||| || || ||
Db        225 TTCCTGATCAACTTCATTGCCATTGGATATCACGCCTCGAGAGCCATTCCCTTCGGTACC 166

Qy        790 ATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCTTGTTGGTACA 849
              |||||||| ||    ||||||||  | |||| || || ||  | | ||| || ||||
Db        165 ATGGTGGCGGTCACGTGCATCTGCCTGTTTGTCATCCTGCCCTTGACTCTGGTGGGTACT 106

Qy        850 ATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAATGCTGTGCCT 909
              |  | ||||| ||||||   || || ||  ||||||| || || ||||| || |||||
Db        105 GTCGTGGGCCGCAATCTGGACGGCCAACCGGACTTTCCATGCCGCGTCAACGCGGTGCCA 46

Qy        910 CGTCCTATACCGGAGAAAAAATGGTTCATGGAGCCTGCGGTTATT 954
              || || || || || || || |||| |||||||||   | |||||
Db         45 CGACCCATTCCCGAAAAGAAGTGGTACATGGAGCCACTGATTATT 1


RESULT 6
US-09-270-767-15961/c
; Sequence 15961, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 15961
;   LENGTH: 771
;   TYPE: DNA
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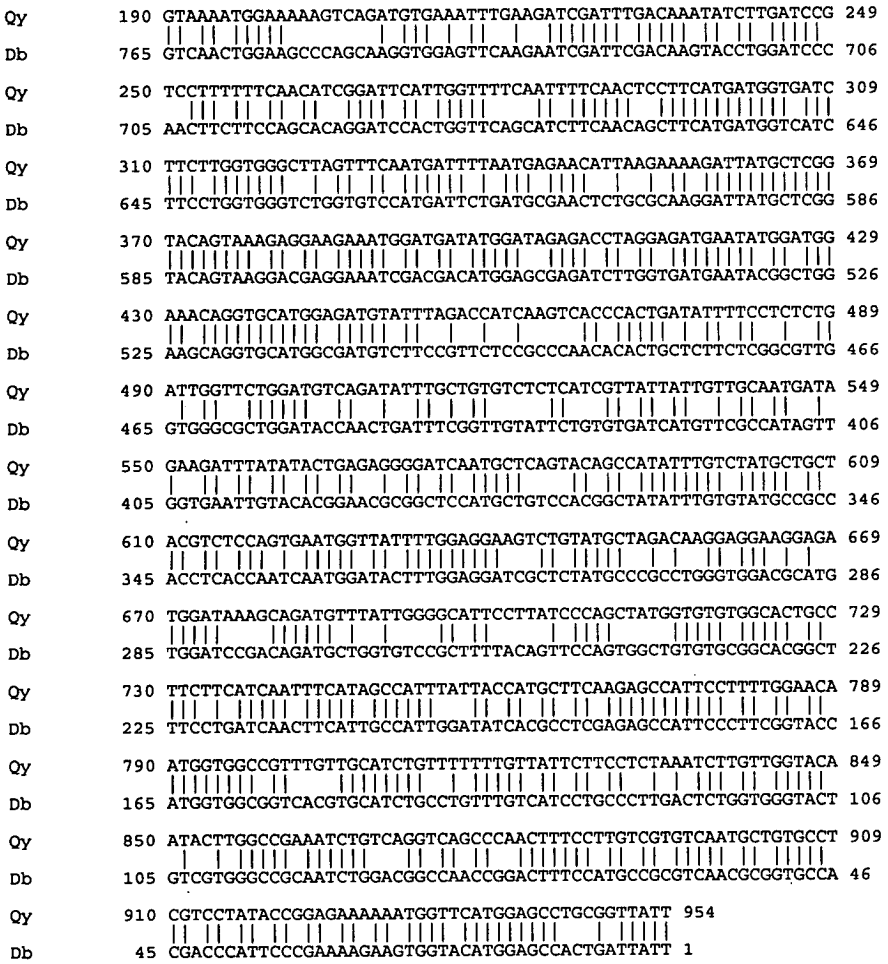
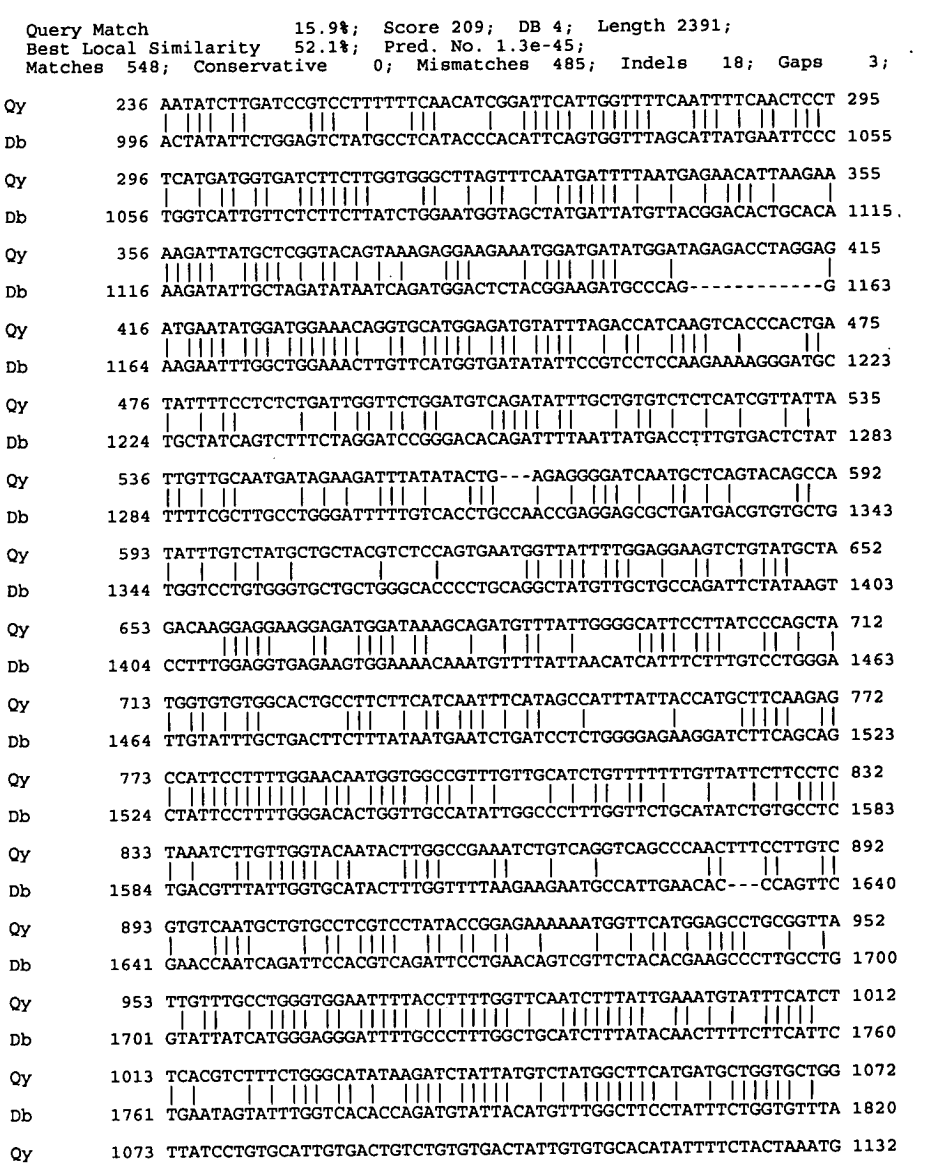
; ORGANISM: Drosophila melanogaster
US-09-270-767-15961

Query Match 28.1%; Score 369.8; DB 4; Length 771;
Best Local Similarity 67.7%; Pred. No. 9.5e-89;
Matches 518; Conservative 0; Mismatches 247; Indels 0; Gaps 0;



RESULT 7
US-09-949-016-3623
; Sequence 3623, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 3623
; LENGTH: 2391
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-3623

Query Match 15.9%; Score 209; DB 4; Length 2391;
Best Local Similarity 52.1%; Pred. No. 1.3e-45;
Matches 548; Conservative 0; Mismatches 485; Indels 18; Gaps 3;



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Db       1821 TCATTTTGGTTATTACCTGTTCTGAAGCAACTATACTTCTTTGCTATTTCCACCTATGTG 1880

Qy       1133 CAGAAGATTACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATG 1192

Db       1881 CAGAGGATTATCATTGGCAATGGCGTTCATTCCTTACGAGTGGCTTTACTGCAGTTTATT 1940

Qy       1193 TTTACATGTATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAA 1252

Db       1941 TCTTAATCTATGCAGTACACTACTTCTTTTCAAAACTGCAGATCACGGGAACAGCAAGCA 2000

Qy       1253 CATCATTTTACTTTGGATATATGGCGGTATT 1283

Db       2001 CAATTCTGTACTTTGGTTATACCATGATAAT 2031


RESULT 8
US-08-959-004-6
; Sequence 6, Application US/08959004
; Patent No. 6197543
;  GENERAL INFORMATION:
;    APPLICANT:  Hillman, Jennifer L.
;    APPLICANT:  Yue, Henry
;    APPLICANT:  Corley, Neil C.
;    APPLICANT:  Lal, Preeti
;    APPLICANT:  Shah, Purvi
;    APPLICANT:  Kaser, Matthew
;    TITLE OF INVENTION:  HUMAN VESICLE MEMBRANE PROTEIN-LIKE
;    TITLE OF INVENTION:  PROTEINS
;    NUMBER OF SEQUENCES:  11
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Incyte Pharmaceuticals, Inc.
;      STREET:  3174 Porter Drive
;      CITY:  Palo Alto
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94304
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/959,004
;      FILING DATE:  Herewith
;      CLASSIFICATION:  514
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Billings, Lucy J.
;      REGISTRATION NUMBER:  36,749
;      REFERENCE/DOCKET NUMBER:  PF-0414 US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  650-855-0555
;      TELEFAX:  650-845-4166
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2805 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    IMMEDIATE SOURCE:
;      LIBRARY:  ADRETUT06
;      CLONE:  2822412
US-08-959-004-6

  Query Match             15.9%;  Score 209;  DB 3;  Length 2805;
  Best Local Similarity   52.1%;  Pred. No. 1.4e-45;
  Matches  548;  Conservative    0;  Mismatches  485;  Indels   18;  Gaps    3;

Qy        236 AATATCTTGATCCGTCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCT 295

Db       1044 ACTATATTCTGGAGTCTATGCCTCATACCCACATTCAGTGGTTTAGCATTATGAATTCCC 1103

Qy        296 TCATGATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAA 355

Db       1104 TGGTCATTGTTCTCTTCTTATCTGGAATGGTAGCTATGATTATGTTACGGACACTGCACA 1163

Qy        356 AAGATTATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAG 415

Db       1164 AAGATATTGCTAGATATAATCAGATGGACTCTACGGAAGATGCCCAG----------G 1211

Qy        416 ATGAATATGGATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGA 475

Db       1212 AAGAATTTGGCTGGAAACTTGTTCATGGTGATATATTCCGTCCTCCAAGAAAAGGGATGC 1271

Qy        476 TATTTTCCTCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTA 535

Db       1272 TGCTATCAGTCTTTCTAGGATCCGGGACACAGATTTTAATTATGACCTTTGTGACTCTAT 1331

Qy        536 TTGTTGCAATGATAGAAGATTTATATACTG---AGAGGGGATCAATGCTCAGTACAGCCA 592

Db       1332 TTTTCGCTTGCCTGGGATTTTTGTCACCTGCCAACCGAGGAGCGCTGATGACGTGTGCTG 1391

Qy        593 TATTTGTCTATGCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTA 652

Db       1392 TGGTCCTGTGGGTGCTGCTGGGCACCCCTGCAGGCTATGTTGCTGCCAGATTCTATAAGT 1451

Qy        653 GACAAGGAGGAAGGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTA 712

Db       1452 CCTTTGGAGGTGAGAAGTGGAAAACAAATGTTTTATTAACATCATTTCTTTGTCCTGGGA 1511

Qy        713 TGGTGTGTGGCACTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAG 772

Db       1512 TTGTATTTGCTGACTTCTTTATAATGAATCTGATCCTCTGGGGAGAAGGATCTTCAGCAG 1571

Qy        773 CCATTCCTTTTGGAACAATGGTGGCCGTTTGTTGCATCTGTTTTTTTTGTTATTCTTCCTC 832

Db       1572 CTATTCCTTTTGGGACACTGGTTGCCATATTGGCCCTTTGGTTCTGCATATCTGTGCCTC 1631

Qy        833 TAAATCTTGTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTC 892

Db       1632 TGACGTTTATTGGTGCATACTTTGGTTTTAAGAAGAATGCCATTGAACAC---CCAGTTC 1688

Qy        893 GTGTCAATGCTGTGCCTCGTCCTATACCGGAGAAAAAATGGTTCATGGAGCCTGCGGTTA 952

Db       1689 GAACCAATCAGATTCCACGTCAGATTCCTGAACAGTCGTTCTACACGAAGCCCTTGCCTG 1748

Qy        953 TTGTTTGCCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCT 1012

Db       1749 GTATTATCATGGGAGGGATTTTGCCCTTTGGCTGCATCTTTATACAACTTTTCTTCATTC 1808

Qy       1013 TCACGTCTTTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGG 1072

Db       1809 TGAATAGTATTTGGTCACACCAGATGTATTACATGTTTGGCTTCCTATTTCTGGTGTTTA 1868

Qy       1073 TTATCCTGTGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATG 1132

Db       1869 TCATTTTGGTTATTACCTGTTCTGAAGCAACTATACTTCTTTGCTATTTCCACCTATGTG 1928

Qy       1133 CAGAAGATTACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATG 1192

Db       1929 CAGAGGATTATCATTGGCAATGGCGTTCATTCCTTACGAGTGGCTTTACTGCAGTTTATT 1988

Qy       1193 TTTACATGTATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAA 1252

Db       1989 TCTTAATCTATGCAGTACACTACTTCTTTTCAAAACTGCAGATCACGGGAACAGCAAGCA 2048

Qy       1253 CATCATTTTACTTTGGATATATGGCGGTATT 1283

Db       2049 CAATTCTGTACTTTGGTTATACCATGATAAT 2079


RESULT 9
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```
US-09-270-767-28434
; Sequence 28434, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 28434
;   LENGTH: 571
;   TYPE: DNA
;   ORGANISM: Drosophila melanogaster
US-09-270-767-28434

  Query Match             14.7%;  Score 193;  DB 4;  Length 571;
  Best Local Similarity   73.3%;  Pred. No. 1.3e-41;
  Matches  247;  Conservative    0;  Mismatches   90;  Indels    0;  Gaps    0;

Qy        974 TACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCTTTCTGGGCATATA 1033
              | || ||||| || ||||| ||||| ||||| |||||||||||| || |||||||| || |
Db          1 TGCCCTTTGGATCCATCTTCATTGAGATGTACTTCATCTTCACCTCCTTCTGGGCGTACA 60

Qy       1034 AGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTGTGCATTGTGACTG 1093
              ||||||| || ||||| ||||||||| |||||||   |     ||||||     | || || |
Db         61 AGATCTACTACGTCTACGGCTTCATGTTGCTGGTTTTCAGCATCCTGACTGTGGTCACCG 120

Qy       1094 TCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTACCGGTGGCAAT 1153
              | || || || || |||||||| || || || |||||||| || |||||||| ||||| |
Db        121 TGTGCGTCACCATCGTGTGCACCTACTTCCTGCTAAATGCCGAGGATTACCGATGGCAGT 180

Qy       1154 GGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATGTATTCCTTTTACT 1213
              |||| |||||   |  |||| |  || ||  | || || || |||   |||||||| || |
Db        181 GGACGAGTTTCATGGCTGCGGGCTCCACGTCGATTTACGTGTACGCCTATTCCTTCTATT 240

Qy       1214 ACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTTTACTTTGGATATA 1273
              |||  || || ||||| || ||||  ||  | || ||||| | || |||||||| || |
Db        241 ACTTCTTCTTTAAAACCAAAATGTTCGGTCTGTTCCAAACGGCCTTCTACTTTGGCTACA 300

Qy       1274 TGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGG 1310
              ||||  | || |||   |||||||| || || || ||
Db        301 TGGCACTCTTCAGCGGCGCCTTGGGCATTATCTGCGG 337


RESULT 10
US-09-270-767-12633
; Sequence 12633, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12633
;   LENGTH: 1151
;   TYPE: DNA
;   ORGANISM: Drosophila melanogaster
US-09-270-767-12633

  Query Match             14.7%;  Score 193;  DB 4;  Length 1151;
  Best Local Similarity   73.3%;  Pred. No. 1.8e-41;
  Matches  247;  Conservative    0;  Mismatches   90;  Indels    0;  Gaps    0;

Qy        974 TACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCTTTCTGGGCATATA 1033
              | || ||||| || ||||| ||||| ||||| |||||||||||| || |||||||| || |
Db          1 TGCCCTTTGGATCCATCTTCATTGAGATGTACTTCATCTTCACCTCCTTCTGGGCGTACA 60

Qy       1034 AGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTGTGCATTGTGACTG 1093
              ||||||| || ||||| ||||||||| |||||||   |     ||||||     | || || |
Db         61 AGATCTACTACGTCTACGGCTTCATGTTGCTGGTTTTCAGCATCCTGACTGTGGTCACCG 120

Qy       1094 TCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTACCGGTGGCAAT 1153
              | || || || || |||||||| || || || |||||||| || |||||||| ||||| |
Db        121 TGTGCGTCACCATCGTGTGCACCTACTTCCTGCTAAATGCCGAGGATTACCGATGGCAGT 180

Qy       1154 GGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATGTATTCCTTTTACT 1213
              |||| |||||   |  |||| |  || ||  | || || || |||   |||||||| || |
Db        181 GGACGAGTTTCATGGCTGCGGGCTCCACGTCGATTTACGTGTACGCCTATTCCTTCTATT 240

Qy       1214 ACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTTTACTTTGGATATA 1273
              |||  || || ||||| || ||||  ||  | || ||||| | || |||||||| || |
Db        241 ACTTCTTCTTTAAAACCAAAATGTTCGGTCTGTTCCAAACGGCCTTCTACTTTGGCTACA 300

Qy       1274 TGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGG 1310
              ||||  | || |||   |||||||| || || || ||
Db        301 TGGCACTCTTCAGCGGCGCCTTGGGCATTATCTGCGG 337


RESULT 11
US-09-248-796A-6208
; Sequence 6208, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
;  APPLICANT: Keith Weinstock et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 107196.132
;  CURRENT APPLICATION NUMBER: US/09/248,796A
;  CURRENT FILING DATE:  1999-02-12
;  PRIOR APPLICATION NUMBER: US 60/074,725
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: US 60/096,409
;  PRIOR FILING DATE: 1998-08-13
;  NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 6208
;   LENGTH: 726
;   TYPE: DNA
;   ORGANISM: Candida albicans
US-09-248-796A-6208

  Query Match              8.7%;  Score 114.6;  DB 4;  Length 726;
  Best Local Similarity   51.7%;  Pred. No. 1.2e-20;
  Matches  286;  Conservative    0;  Mismatches  264;  Indels    3;  Gaps    1;

Qy        658 GGAGGAAGGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTG 717
              || ||     |  |||| |  | | ||||||  |      || |  |  | ||||  ||  ||
Db         13 GGTGGTGACAATTGGAAATTGAATATGTTTTTGACACCAGTTTTAGTACCAGGGATTTTG 72

Qy        718 TGTGGCACTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATT 777
              | |   |  | | |  | |||||| |   ||||      ||  ||||  | || |||
Db         73 TCTCTGGTTTTCGTTGTGTTGAATTTCTTTTTAATTTCAGTACAATCTTCTGGTGCTATT 132

Qy        778 CCTTTTGGAACAATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAAT 837
              | | | || |||||| | ||| ||   |  || || ||  || |     ||||  ||| |
Db        133 CATATGGGGACAATGTTTGCCATTGTCTTAATTTGGTTCATTATATCGATTCCATTAAGT 192

Qy        838 CTTGTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTC 897
              || ||||  ||||  | |   | |||    ||       |   | ||    |
Db        193 GTTATTGGATCAATTTTAGCTAGTAATAGACCATTATTATC---GGTACCAGTGAGAACT 249

Qy        898 AATGCTGTGCCTCGTCCTATACCGGAGAAAAAATGGTTCATGGAGCCTGCGGTTATTGTT 957
              |||   | ||  | |  || ||      ||  |||||    |      ||         | |
Db        250 AATCAAATTCCAAGACAAATTCCTACTCAACCATGGTATTTAAGTACTATCCCGGTAATG 309

Qy        958 TGCCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACG 1017
              |   |     |||||||| || ||||| |||||    | | ||||||||||| || |   |
Db        310 TTTATTTCGGGAATTTTCCCATTTGGATCAATTGCTGTGGAAATGTATTTTATTTATTCA 369

Qy       1018 TCTTTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATC 1077
              ||  | |||     |||||||  | |||| | | ||| ||  |  |  |      |  | |
Db        370 TCAATTTGGTTTAATAAGATTTTTTATATGTTTGGATTTTTATTTTTCTGTTTCATATTA 429
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Qy       1078 CTGTGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAA 1137
              ||    |    | |   |   | ||||||  |    |  ||||  |    ||  | |||||
Db        430 ATGATTTTAACTAGTAGTTTAATTACTATTTTAATGATTTATTATACTTTATGTTCAGAA 489

Qy       1138 GATTACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTAC 1197
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Db        490 AATTATAAATGGCAATGGAAATCATTATTTGTTGGAGGAGGTTGTGCAATTTATGTATTT 549

Qy       1198 ATGTATTCCTTTT 1210
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Db        550 ATTCATTCATTTT 562


RESULT 12
US-09-313-294A-2292
; Sequence 2292, Application US/09313294A
; Patent No. 6476212
; GENERAL INFORMATION:
;  APPLICANT:  Lalgudi, Raghunath V.
;  APPLICANT:  Ito, Laura Y.
;  APPLICANT:  Sherman, Bradley K.
;  TITLE OF INVENTION:  POLYNUCLEOTIDES AND POLYPEPTIDES DERIVED FROM CORN EAR
;  FILE REFERENCE:  PL-0017 US
;  CURRENT APPLICATION NUMBER: US/09/313,294A
;  CURRENT FILING DATE:  1999-05-14
;  NUMBER OF SEQ ID NOS:  7600
;  SOFTWARE:  PERL Program
; SEQ ID NO 2292
;   LENGTH: 262
;   TYPE: DNA
;   ORGANISM: Zea mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   OTHER INFORMATION: Incyte ID No. 6476212 700552439H1
US-09-313-294A-2292

  Query Match             7.6%;  Score 100;  DB 4;  Length 262;
  Best Local Similarity   68.3%;  Pred. No. 6.2e-17;
  Matches  153;  Conservative    0;  Mismatches   70;  Indels    1;  Gaps    1;

Qy       1094 TCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTACCGGTGGCAAT 1153
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Db         39 TCTGCGTCACTATTGTGGGTACTTATTTCTTGCTGAACGCCGAGAACTACCATTGGCAAT 98

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Db         99 GGACGTCGTTTTCTTCTGCAGCGTCAACCGCTCTGTACGTGTATCTGTACTCCATCTACT 158

Qy       1214 ACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTTTACTTTGGATATA 1273
              ||||   | | || |||||||||| ||||| || || |||   || || || || || | |
Db        159 ACTACCATGTGAAGACAAAGATGTCAGGCTTCTTCCAGACAAGTTTCTATTTCGGCTACA 218

Qy       1274 TGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATT 1317
              |  | | ||  || | | | | || ||| | |||||||| |||
Db        219 CGCTGATGTTCTGC-CTGGCCTAGGCATACTTTGTGGAGCTATT 261


RESULT 13
US-09-385-982-530/c
; Sequence 530, Application US/09385982
; Patent No. 6262334
; GENERAL INFORMATION:
;  APPLICANT: ENDEGE, WILSON O., ET AL.
;  TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION
;  TITLE OF INVENTION: PRODUCTS:  II
;  FILE REFERENCE: CCDNA-260XX
;  CURRENT APPLICATION NUMBER: US/09/385,982
;  CURRENT FILING DATE: 1999-08-30
;  EARLIER APPLICATION NUMBER: 09/328,111
;  EARLIER FILING DATE: 1999-06-08
;  EARLIER APPLICATION NUMBER: 60/117,393
;  EARLIER FILING DATE: 1999-01-27
;  EARLIER APPLICATION NUMBER: 60/098,639
;  EARLIER FILING DATE: 1998-08-31
;  NUMBER OF SEQ ID NOS: 544
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 530
;   LENGTH: 769
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)...(769)
;   OTHER INFORMATION: n = A,T,C or G
US-09-385-982-530

  Query Match             7.0%;  Score 91.6;  DB 3;  Length 769;
  Best Local Similarity   57.0%;  Pred. No. 1.8e-14;
  Matches  166;  Conservative    0;  Mismatches  125;  Indels    0;  Gaps    0;

Qy        905 TGCCTCGTCCTATACCGGAGAAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGCCTGG 964
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Db        308 TCCACNGTCAGATTCCTGAACAGTCGTTCTACACGAAGCCCTTGCCTGGTATTATCATGG 249

Qy        965 GTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCTTTCT 1024
              | || ||||| || ||||| |  |||||||  || | |  |||||  | |    | | |
Db        248 GAGGGATTTTGCCCTTTGGCTGCATCTTTATACAACTTTTCTTCATTCTGAATAGTATTT 189

Qy       1025 GGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTGTGCA 1084
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Db        188 GGTCACACCAGATGTATTACATGTTTGGCTTCCTATTTCTGGTGTTTATCATTTTGGTTA 129

Qy       1085 TTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTACC 1144
              ||    |     |  |||||  |        |||||  |  |||  |||||| |||||
Db        128 TTACCTGTTCTGAAGCAACTATACTTCTTTGCTATTTCCACCTATGTGCAGAGGATTATC 69

Qy       1145 GGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTT 1195
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Db         68 ATTGGCAATGGCGTTCATTCCTTACGAGTGGCTTTACTGCAGTTTATTTCT 18


RESULT 14
US-09-513-999C-3502
; Sequence 3502, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
;  APPLICANT: Dumas Milne Edwards, J.B.
;  APPLICANT:  Duclert, A.
;  APPLICANT:  Giordano, J.Y.
;  TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6783961
;  FILE REFERENCE: 59.US2.REG
;  CURRENT APPLICATION NUMBER: US/09/513,999C
;  CURRENT FILING DATE:  2000-02-24
;  PRIOR APPLICATION NUMBER: US 60/122,487
;  PRIOR FILING DATE: 1999-02-26
;  NUMBER OF SEQ ID NOS: 36681
;  SOFTWARE: Patent.pm
; SEQ ID NO 3502
;   LENGTH: 433
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: CDS
;   LOCATION: 100..432
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: 86
;   OTHER INFORMATION: m=a or c
US-09-513-999C-3502

  Query Match             5.5%;  Score 73;  DB 4;  Length 433;
  Best Local Similarity   100.0%;  Pred. No. 1.3e-09;
  Matches   73;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;
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Qy         61 GATTACTATCTTT 73
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Db        421 GATTACTATCTTT 433
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RESULT 15
US-09-702-705-1002/c
; Sequence 1002, Application US/09702705
; Patent No. 6504010
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478C14
; CURRENT APPLICATION NUMBER: US/09/702,705
; CURRENT FILING DATE: 2000-10-30
; NUMBER OF SEQ ID NOS: 1833
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 1002
; LENGTH: 302
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-702-705-1002

Query Match 4.9%; Score 64.6; DB 4; Length 302;
Best Local Similarity 56.2%; Pred. No. 1.9e-07;
Matches 149; Conservative 0; Mismatches 104; Indels 12; Gaps 1;

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              | | | | || |   | |   | ||| || |||||||| ||  | ||||| |  | |
Db        253 TTACCTGACCATGAGTGACGTCCAGATCCACTGGTTTTCTATCATTAACTCCGTTGTTGT 194

Qy        303 GGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGATTA 362
              |||  ||||| ||   ||  |  |    |||||| | ||  | ||  |  | || ||
Db        193 GGTCTTCTTCCTGTCAGGTATCCTGAGCATGATTATCATTCGGACCCTCCGGAAGGACAT 134

Qy        363 TGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAATA 422
              |||    ||||  || ||||| || || ||              ||||      || || |
Db        133 TGCCAACTACAACAAGGAGGATGACATTGA-----------AGACACCATGGAGGAGTC 86

Qy        423 TGGATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTTTC 482
              |||  |||||   |||||| || || || || || ||  |      ||||  ||||  |
Db         85 TGGGTGGAAGTTGGTGCACGGCGACGTCTTCAGGCCCCCCCAGTACCCCATGATCCTCAG 26

Qy        483 CTCTCTGATTGGTTCTGGATGTCAG 507
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Db         25 CTCCCTGCTGGGCTCAGGCATTCAG 1
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Job time : 313.708 secs

GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: August 9, 2005, 13:22:35 ; Search time 95.1527 Seconds
(without alignments)
1801.154 Million cell updates/sec

Title: US-09-319-724B-1
Perfect score: 2347
Sequence: 1 MYIDDLPIWGIVGEADENGE.....FYFGYMAVFSTALGIMCGAI 439

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1752860 seqs, 390397842 residues

Total number of hits satisfying chosen parameters: 1752860

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
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Listing first 45 summaries

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22: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	2347	100.0	579	16	US-10-755-466-4	Sequence 4, Appli
2	2347	100.0	582	16	US-10-755-466-2	Sequence 2, Appli
3	2340	99.7	545	10	US-09-374-046A-26	Sequence 26, Appl
4	2340	99.7	545	15	US-10-616-263-26	Sequence 26, Appl
5	1543	65.7	530	14	US-10-205-219-121	Sequence 121, App
6	1437	61.2	596	16	US-10-425-115-325471	Sequence 325471,
7	1436	61.2	576	15	US-10-425-114-66140	Sequence 66140, A
8	1435	61.1	552	16	US-10-425-115-286624	Sequence 286624,
9	1430	60.9	594	16	US-10-767-701-44284	Sequence 44284, A
10	1428.5	60.9	595	16	US-10-425-115-325582	Sequence 325582,
11	1424	60.7	617	16	US-10-437-963-141888	Sequence 141888,
12	1412	60.2	596	16	US-10-437-963-116913	Sequence 116913,
13	1411	60.1	595	16	US-10-739-930-9909	Sequence 9909, Ap
14	1278.5	54.5	424	16	US-10-437-963-103141	Sequence 103141,
15	1158	49.3	500	16	US-10-425-115-206340	Sequence 206340,
16	915.5	39.0	341	15	US-10-424-599-246293	Sequence 246293,
17	911.5	38.8	692	16	US-10-425-115-202293	Sequence 202293,
18	910.5	38.8	627	15	US-10-425-114-42573	Sequence 42573, A
19	907.5	38.7	595	16	US-10-767-701-45514	Sequence 45514, A
20	906	38.6	624	15	US-10-425-114-45661	Sequence 45661, A
21	906	38.6	647	15	US-10-424-599-204944	Sequence 204944,
22	905.5	38.6	589	16	US-10-425-115-359244	Sequence 359244,
23	903	38.5	645	16	US-10-739-930-11074	Sequence 11074, A
24	902.5	38.5	623	15	US-10-425-114-62405	Sequence 62405, A
25	901.5	38.4	592	15	US-10-424-599-174369	Sequence 174369,
26	900.5	38.4	594	16	US-10-739-930-11084	Sequence 11084, A
27	887	37.8	627	16	US-10-437-963-120941	Sequence 120941,
28	852.5	36.3	559	16	US-10-739-930-10304	Sequence 10304, A
29	851.5	36.3	893	16	US-10-437-963-177000	Sequence 177000,
30	842.5	35.9	625	14	US-10-394-136-54	Sequence 54, Appl
31	842.5	35.9	642	14	US-10-201-964-1	Sequence 1, Appli
32	842.5	35.9	642	16	US-10-885-101-1	Sequence 1, Appli
33	818	34.9	820	16	US-10-437-963-165390	Sequence 165390,
34	812	34.6	218	15	US-10-264-237-2819	Sequence 2819, Ap
35	799	34.0	253	16	US-10-425-115-206342	Sequence 206342,
36	786	33.5	237	15	US-10-425-114-37646	Sequence 37646, A
37	782	33.3	513	15	US-10-424-599-195511	Sequence 195511,
38	772.5	32.9	642	16	US-10-437-963-150528	Sequence 150528,
39	763.5	32.5	670	16	US-10-739-930-10578	Sequence 10578, A
40	758	32.3	639	16	US-10-425-115-193953	Sequence 193953,
41	757	32.3	637	15	US-10-424-599-218357	Sequence 218357,
42	754	32.1	639	16	US-10-425-115-194452	Sequence 194452,
43	752	32.0	639	16	US-10-425-115-194454	Sequence 194454,
44	750.5	32.0	646	16	US-10-437-963-136356	Sequence 136356,
45	750	32.0	151	14	US-10-002-631C-135	Sequence 135, App

ALIGNMENTS

RESULT 1
US-10-755-466-4
; Sequence 4, Application US/10755466
; Publication No. US20040265854A1
; GENERAL INFORMATION:
; APPLICANT: HIDAKA , Jun et al.
; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING I
; TITLE OF INVENTION: BINDING ACTIVITIES, AND THEIR USES
; FILE REFERENCE: 0020-4827P
; CURRENT APPLICATION NUMBER: US/10/755,466
; CURRENT FILING DATE: 2004-01-13
; PRIOR APPLICATION NUMBER: US/09/786,681
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 4
; LENGTH: 579
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-755-466-4

Query Match 100.0%; Score 2347; DB 16; Length 579;
Best Local Similarity 100.0%; Pred. No. 5.1e-220;
Matches 439; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 MYIDDLPIWGIVGEADENGEDYYLWTYKKLEIGFNGNRIVDVNLTSEGKVKLVPNTKIQM 60
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Qy         61 SYSVKWKKSDVKFEDRFDKYLDPSFFQHRIHWFSIFNSFMMVIFLVGLVSMILMRTLRKD 120
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Db        182 SYSVKWKKSDVKFEDRFDKYLDPSFFQHRIHWFSIFNSFMMVIFLVGLVSMILMRTLRKD 241

Qy        121 YARYSKEEEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVIIV 180
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Db        242 YARYSKEEEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVIIV 301

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Qy        301 AVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIFTSFWAYKIYYVYGFMMLVLVIL 360
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Db        542 YFGYMAVFSTALGIMCGAI 560


RESULT 2
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; Sequence 2, Application US/10755466
; Publication No. US20040265854A1
; GENERAL INFORMATION:
;  APPLICANT: HIDAKA , Jun et al.
;  TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING L
;  TITLE OF INVENTION:  BINDING ACTIVITIES, AND THEIR USES
;  FILE REFERENCE: 0020-4827P
;  CURRENT APPLICATION NUMBER: US/10/755,466
;  CURRENT FILING DATE:  2004-01-13
;  PRIOR APPLICATION NUMBER: US/09/786,681
;  PRIOR FILING DATE: 2001-04-30
;  NUMBER OF SEQ ID NOS: 7
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
;   LENGTH: 582
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-755-466-2

  Query Match            100.0%;  Score 2347;  DB 16;  Length 582;
  Best Local Similarity   100.0%;  Pred. No. 5.2e-220;
  Matches  439;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

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Qy        121 YARYSKEEEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVIIV 180
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Db        245 YARYSKEEEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVIIV 304

Qy        181 AMIEDLYTERGSMLSTAIFVYAATSPVNGYFGGSLYARQGGRRWIKQMFIGAFLIPAMVC 240
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Qy        301 AVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIFTSFWAYKIYYVYGFMMLVLVIL 360
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Db        425 AVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIFTSFWAYKIYYVYGFMMLVLVIL 484

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Qy        421 YFGYMAVFSTALGIMCGAI 439
                ||||||||||||||||||
Db        545 YFGYMAVFSTALGIMCGAI 563


RESULT 3
US-09-374-046A-26
; Sequence 26, Application US/09374046A
; Publication No. US20030096951A1
; GENERAL INFORMATION:
;  APPLICANT: Jacobs, Kenneth
;  APPLICANT: McCoy, John M.
;  APPLICANT: LaVallie, Edward R.
;  APPLICANT: Collins-Racie, Lisa A.
;  APPLICANT: Evans, Cheryl
;  APPLICANT: Merberg, David
;  APPLICANT: Treacy, Maurice
;  APPLICANT: Agostino, Michael J.
;  APPLICANT: Steininger II, Robert J.
;  APPLICANT: Spaulding, Vikki
;  APPLICANT: Wong, Gordon G.
;  APPLICANT: Clark, Hilary
;  APPLICANT: Fechtel, Kim
;  APPLICANT: Genetics Institute, Inc.
;  TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM
;  FILE REFERENCE: GI 6075-83A
;  CURRENT APPLICATION NUMBER: US/09/374,046A
;  CURRENT FILING DATE: 1999-08-13
;  NUMBER OF SEQ ID NOS: 240
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 26
;   LENGTH: 545
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-374-046A-26

  Query Match            99.7%;  Score 2340;  DB 10;  Length 545;
  Best Local Similarity   99.8%;  Pred. No. 2.3e-219;
  Matches  438;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 MYIDDLPIWGIVGEADENGEDYYLWTYKKLEIGFNGNRIVDVNLTSEGKVKLVPNTKIQM 60
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         88 MYIDDLPIWGIVGEADENGEDYYLWTYKKLEIGFNGNRIVDVNLTSEGKVKLVPNTKIQM 147

Qy         61 SYSVKWKKSDVKFEDRFDKYLDPSFFQHRIHWFSIFNSFMMVIFLVGLVSMILMRTLRKD 120
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        148 SYSVKWKKSDVKFEDRFDKYLDPSFFQHRIHWFSIFNSFMMVIFLVGLVSMILMRTLRKD 207

Qy        121 YARYSKEEEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVIIV 180
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        208 YARYSKEEEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVIIV 267

Qy        181 AMIEDLYTERGSMLSTAIFVYAATSPVNGYFGGSLYARQGGRRWIKQMFIGAFLIPAMVC 240
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        268 AMIEDLYTERGSMLSTAIFVYAATSPVNGYFGGSLYARQGGRRWIKQMFIGAFLIPAMVC 327

Qy        241 GTAFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCRVN 300
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        328 GTAFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCRVN 387

Qy        301 AVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIFTSFWAYKIYYVYGFMMLVLVIL 360
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        388 AVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIFTSFWAYKIYYVYGFMMLVLVIL 447

Qy        361 CIVTVCVTIVCTYFLLNAEDYRWQWTSFLSAASTAIYVYMYSFYYYFFKTKMYGLFQTSF 420
                |||||||||||||||||||| ||||||||||||||||||||||||||||||||||||||||
Db        448 CIVTVCVTIVCTYFLLNAEDYPWQWTSFLSAASTAIYVYMYSFYYYFFKTKMYGLFQTSF 507

Qy        421 YFGYMAVFSTALGIMCGAI 439
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                    ||||||||||||||||||
Db        508 YFGYMAVFSTALGIMCGAI 526


RESULT 4
US-10-616-263-26
; Sequence 26, Application US/10616263
; Publication No. US20040038276A1
; GENERAL INFORMATION:
;  APPLICANT: Jacobs, Kenneth
;  APPLICANT:  McCoy, John M.
;  APPLICANT:  LaVallie, Edward R.
;  APPLICANT:  Collins-Racie, Lisa A.
;  APPLICANT:  Evans, Cheryl
;  APPLICANT:  Merberg, David
;  APPLICANT:  Treacy, Maurice
;  APPLICANT:  Agostino, Michael J.
;  APPLICANT:  Steininger II, Robert J.
;  APPLICANT:  Spaulding, Vikki
;  APPLICANT:  Wong, Gordon G.
;  APPLICANT:  Clark, Hilary
;  APPLICANT:  Fechtel, Kim
;  APPLICANT:  Genetics Institute, Inc.
;  TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM
;  FILE REFERENCE: 00766.000103.5
;  CURRENT APPLICATION NUMBER: US/10/616,263
;  CURRENT FILING DATE:  2003-07-08
;  NUMBER OF SEQ ID NOS: 240
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 26
;   LENGTH: 545
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-616-263-26

  Query Match             99.7%;  Score 2340;  DB 15;  Length 545;
  Best Local Similarity   99.8%;  Pred. No. 2.3e-219;
  Matches  438;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 MYIDDLPIWGIVGEADENGEDYYLWTYKKLEIGFNGNRIVDVNLTSEGKVKLVPNTKIQM 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         88 MYIDDLPIWGIVGEADENGEDYYLWTYKKLEIGFNGNRIVDVNLTSEGKVKLVPNTKIQM 147

Qy         61 SYSVKWKKSDVKFEDRFDKYLDPSFFQHRIHWFSIFNSFMMVIFLVGLVSMILMRTLRKD 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        148 SYSVKWKKSDVKFEDRFDKYLDPSFFQHRIHWFSIFNSFMMVIFLVGLVSMILMRTLRKD 207

Qy        121 YARYSKEEEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVIIV 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        208 YARYSKEEEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVIIV 267

Qy        181 AMIEDLYTERGSMLSTAIFVYAATSPVNGYFGGSLYARQGGRRWIKQMFIGAFLIPAMVC 240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        268 AMIEDLYTERGSMLSTAIFVYAATSPVNGYFGGSLYARQGGRRWIKQMFIGAFLIPAMVC 327

Qy        241 GTAFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCRVN 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        328 GTAFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCRVN 387

Qy        301 AVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIFTSFWAYKIYYVYGFMMLVLVIL 360
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        388 AVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIFTSFWAYKIYYVYGFMMLVLVIL 447

Qy        361 CIVTVCVTIVCTYFLLNAEDYRWQWTSFLSAASTAIYVYMYSFYYYFFKTKMYGLFQTSF 420
              ||||||||||||||||||| ||||||||||||||||||||||||||||||||||||||||
Db        448 CIVTVCVTIVCTYFLLNAEDYPWQWTSFLSAASTAIYVYMYSFYYYFFKTKMYGLFQTSF 507

Qy        421 YFGYMAVFSTALGIMCGAI 439
              ||||||||||||||||||
Db        508 YFGYMAVFSTALGIMCGAI 526


RESULT 5
US-10-205-219-121
; Sequence 121, Application US/10205219
; Publication No. US20030138803A1
; GENERAL INFORMATION:
;  APPLICANT: Warner-Lambert Company
;  APPLICANT:  Lee, Kevin
;  APPLICANT:  Dixon, Alistair
;  APPLICANT:  Brooksbank, Robert
;  APPLICANT:  Pinnock, Robert
;  TITLE OF INVENTION: Identification and Use of Molecules Implicated in Pain
;  FILE REFERENCE: WL-A-018200
;  CURRENT APPLICATION NUMBER: US/10/205,219
;  CURRENT FILING DATE:  2002-07-24
;  PRIOR APPLICATION NUMBER: GB 0118354.0
;  PRIOR FILING DATE: 2001-07-27
;  NUMBER OF SEQ ID NOS: 197
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 121
;   LENGTH: 530
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   OTHER INFORMATION: EP70-P-iso
US-10-205-219-121

  Query Match             65.7%;  Score 1543;  DB 14;  Length 530;
  Best Local Similarity   75.5%;  Pred. No. 1.5e-141;
  Matches  318;  Conservative   12;  Mismatches   51;  Indels   40;  Gaps    7;

Qy          1 MYIDDLPIWGIVGEADENGEDYYLWTYKKLEIGFNGNRIVDVNLTSEGKVKL---VPNTK 57
              ||||||||||||||||||||||||||||||||||||||||||||||||||||   |||||
Db        131 MYIDDLPIWGIVGEADENGEDYYLWTYKKLEIGFNGNRIVDVNLTSEGKVKLGSKYYNPD 190

Qy         58 IQMSYSVKWKKSDVKFEDRFDKYLDPSFFQHRIHWFSIFNSFMMVIFLVGLVSMILMRTL 117
              :  |   | :||||||||||||  |    | ||||||||||||||||||||||||||||||
Db        191 VIFS---KMEKSDVKFEDRFDNIL-IVLFSHRIHWFSIFNSFMMVIFLVGLVSMILMRTL 246

Qy        118 RKDYARYSKEEEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIV 177
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        247 RKDYARYSKEEEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIV 306

Qy        178 IIVAMIEDLYTERGSMLSTAIFVYAATSPVNGYFGGSLYARQGGRRWIKQMFIGAFLIPA 237
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        307 IIVAMIEDLYTERGSMLSTAIFVYAATSPVNGYFGGSLYARQGGRRWIKQMFIGAFLIPA 366

Qy        238 MVCGTAFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPC 297
              |       :: :   :| |  :|          ||      |  | :|       :  |
Db        367 M------GVHCLLHQFH-SHLLP----------CFKSHSFWNNGGRLLHLFFCYSSSKSC 409

Qy        298 RVNAVPRPIPE----------------KKWFMEPAVIVCLGGILPFGSIFIEMYFIFTSF 341
                |  |: :                  :|     ||||||||||||||||||||||||||
Db        410 WYNTWPKSVRSAQLSLSCQCCASSYTGEKMVHGAAVIVCLGGILPFGSIFIEMYFIFTSF 469

Qy        342 WAYKIYYVYGFMMLVLVILCIVTVCVTIVCTYFLLNAEDYRWQWTSFLSAASTAIYVYMY 401
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        470 WAYKIYYVYGFMMLVLVILCIVTVCVTIVCTYFLLNAEDYRWQWTSFLSAASTAIYVYMY 529

Qy        402 S 402
              |
Db        530 S 530


RESULT 6
US-10-425-115-325471
; Sequence 325471, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
```

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;  FILE REFERENCE: 38-21(53222)B
;  CURRENT APPLICATION NUMBER: US/10/425,115
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 325471
;   LENGTH: 596
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   OTHER INFORMATION: Clone ID: MRT4577_598C.1.pep
US-10-425-115-325471

  Query Match             61.2%;  Score 1437;  DB 16;  Length 596;
  Best Local Similarity   59.5%;  Pred. No. 3.8e-131;
  Matches  262;  Conservative   74;  Mismatches  102;  Indels    2;  Gaps    2;

Qy          2 YIDDLPIWGIVGEADENGED-YYLWTYKKLEIGFNGNRIVDVNLTSEGKVKLVPNTKIQM 60
              :|||||:|| |||:|:| |: :||:|:| : : :| |||: |||| |    |    |::|
Db        138 FIDDLPLWGFVGESDKNSENKHYLYTHKNILVKYNDNRIIHVNLTQESPKLLEDGKKLEM 197

Qy         61 SYSVKWKKSDVKFEDRFDKYLDPSFFQHRIHWFSIFNSFMMVIFLVGLVSMILMRTLRKD 120
              :|||||  :|| |  ||: |||  ||:|:|||||||||||||||| ||||||||||| |
Db        198 TYSVKWVATDVSFARRFEVYLDYPFFEHQIHWFSIFNSFMMVIFLTGLVSMILMRTLRND 257

Qy        121 YARYSKE-EEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVII 179
              ||:|::| :::: ::||: :| ||| ||||||||    :  |:|:| | |: |: |:||:
Db        258 YAKYAREDDDLESLERDVNEESGWKLVHGDVFRPPRSLMFLSALVGIGTQLAALILLVIV 317

Qy        180 VAMIEDLYTERGSMLSTAIFVYAATSPVNGYFGGSLYARQGGRRWIKQMFIGAFLIPAMV 239
              :|::  ||  ||::::| |  || || ::||  | ||:| ||: ||| | : | | | :
Db        318 LAIVGMLYIGRGAIITTFIVCYALTSFISGYVSGGLYSRSGGKNWIKAMVLTASLFPFLC 377

Qy        240 CGTAFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCRV 299
                | :| |||:| :  |||||||| :  :  |:  || |:||::||| || || ||||
Db        378 FSIGFMLNTIAIFYRSLAAIPFGTMVVMFVLWAFISFPLVLLGTVVGRNWSGAPNNPCRV 437

Qy        300 NAVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIFTSFWAYKIYYVYGFMMLVLVI 359
                :|||||||||:: |:||  :||:|||||||||||:||||| ||:|||||||:|| ||
Db        438 KTIPRPIPEKKWYLTPSVISLMGGLLPFGSIFIEMYFVFTSFWNYKVYYVYGFMLLVFVI 497

Qy        360 LCIVTVCVTIVCTYFLLNAEDYRWQWTSFLSAASTAIYVYMYSFYYYFFKTKMYGLFQTS 419
              | |||:||||| ||||||||:| |||||| ||||||:|||:|| |||  |||| | ||||
Db        498 LLIVTICVTIVGTYFLLNAENYHWQWTSFSSAASTALYVYLYSIYYYHVKTKMSGFFQTS 557

Qy        420 FYFGYMAVFSTALGIMCGAI 439
              |||||  :|   |||:||||
Db        558 FYFGYTLMFCLGLGILCGAI 577


RESULT 7
US-10-425-114-66140
; Sequence 66140, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
;  APPLICANT: Liu, Jingdong
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Screen, Steven E
;  APPLICANT:  Tabaska, Jack E
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53313)B
;  CURRENT APPLICATION NUMBER: US/10/425,114
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 66140
;   LENGTH: 576
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   OTHER INFORMATION: Clone ID: LIB4573-008-E4_FLI.pep
US-10-425-114-66140

  Query Match             61.2%;  Score 1436;  DB 15;  Length 576;
  Best Local Similarity   59.2%;  Pred. No. 4.6e-131;
  Matches  261;  Conservative   74;  Mismatches  104;  Indels    2;  Gaps    2;

Qy          1 MYIDDLPIWGIVGEADENGE-DYYLWTYKKLEIGFNGNRIVDVNLTSEGKVKLVPNTKIQ 59
              ::|||||:|| ||| |:| |  :||:|:| : : :|||||: |||| |    |    |:
Db        117 LFIDDLPLWGFVGETDKNNEKKHYLYTHKNIVVKYNGNRIIHVNLTQESPKLLEAGKKLD 176

Qy         60 MSYSVKWKKSDVKFEDRFDKYLDPSFFQHRIHWFSIFNSFMMVIFLVGLVSMILMRTLRK 119
              |:||||| :::| |  ||: |||  ||:|:|||||||||||||| ||||||||||
Db        177 MTYSVKWVQTNVAFARRFEVYLDYPFFEHQIHWFSIFNSFMMVIFLTGLVSMILMRTLRN 236

Qy        120 DYARYSKE-EEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVI 178
              |||:|::| :::: ::||: :| ||| ||||||||    :  |:|:| | |: |: |:||
Db        237 DYAKYAREDDDLESLERDVNEESGWKLVHGDVFRPPRGQVFLSALVGIGTQLAALILLVI 296

Qy        179 IVAMIEDLYTERGSMLSTAIFVYAATSPVNGYFGGSLYARQGGRRWIKQMFIGAFLIPAM 238
              ::|::  ||  ||:::::| |  || || ::||  | ||:| ||: ||| | : | | | :
Db        297 VLAIVVMLYVGRGAIITTFIVCYALTSFISGYVSGGLYSRNGGKNWIKAMILTASLFPFL 356

Qy        239 VCGTAFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCR 298
                    :| |||:| :  |||||||| :  :  |:  || |:||::||| || || |||
Db        357 CFSIGLLLNTIAIFYRSLAAIPFGTMVVMFILWAFISFPLVLLGTVVGRNWSGAPNNPCR 416

Qy        299 VNAVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIFTSFWAYKIYYVYGFMMLVLV 358
              |  :|||||||||:: |:||  :||:|||||||||||||:||||| ||:|||||||:|| |
Db        417 VKTIPRPIPEKKWYLTPSVISLMGGLLPFGSIFIEMYFVFTSFWNYKVYYVYGFMLLVFV 476

Qy        359 ILCIVTVCVTIVCTYFLLNAEDYRWQWTSFLSAASTAIYVYMYSFYYYFFKTKMYGLFQT 418
              || |||||||||| ||||||||:| |||||| ||||||:|||:|| |||  |||| | |||
Db        477 ILIIVTVCVTIVGTYFLLNAENYHWQWTSFFSAASTALYVYLYSIYYYHVKTKMSGFFQT 536

Qy        419 SFYFGYMAVFSTALGIMCGAI 439
              ||||||  :|   |||:|||:
Db        537 SFYFGYTLMFCLGLGILCGAV 557


RESULT 8
US-10-425-115-286624
; Sequence 286624, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(53222)B
;  CURRENT APPLICATION NUMBER: US/10/425,115
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 286624
;   LENGTH: 552
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   OTHER INFORMATION: Clone ID: MRT4577_24498C.1.pep
US-10-425-115-286624

  Query Match             61.1%;  Score 1435;  DB 16;  Length 552;
  Best Local Similarity   59.0%;  Pred. No. 5.4e-131;
  Matches  260;  Conservative   75;  Mismatches  104;  Indels    2;  Gaps    2;

Qy          1 MYIDDLPIWGIVGEADENGE-DYYLWTYKKLEIGFNGNRIVDVNLTSEGKVKLVPNTKIQ 59
              ::|||||:|| ||| |:| |  :||:|:| : : :|||||: |||| |    |    |:
Db         93 LFIDDLPLWGFVGETDKNNEKKHYLYTHKNIVVKYNGNRIIHVNLTQESPKLLEAGKKLD 152

Qy         60 MSYSVKWKKSDVKFEDRFDKYLDPSFFQHRIHWFSIFNSFMMVIFLVGLVSMILMRTLRK 119
              |:||||| :::| |  ||: |||  ||:|:|||||||||||||| ||||||||||
Db        153 MTYSVKWVQTNVAFARRFEVYLDYPFFEHQIHWFSIFNSFMMVIFLTGLVSMILMRTLRN 212
```

```
Qy        120 DYARYSKE-EEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVI 178
              |||:|::| :::: ::||: :| ||| |||||||     :  |:|:| | |: |: |:||
Db        213 DYAKYAREDDDLESLERDVNEESGWKLVHGDVFRPPRGQVFLSALVGIGTQLAALILLVI 272

Qy        179 IVAMIEDLYTERGSMLSTAIFVYAATSPVNGYFGGSLYARQGGRRWIKQMFIGAFLIPAM 238
              ::|::  ||  ||::::| |  || || ::||  | ||:| ||: ||| | : | | | :
Db        273 VLAIVVMLYVGRGAIITTFIVCYALTSFISGYVSGGLYSRNGGKNWIKAMILTASLFPFL 332

Qy        239 VCGTAFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCR 298
                  :| |||:| :  |||||||| :  :  |:  || |:||::||| || || |||
Db        333 CFSIGLLLNTIAIFYRSLAAIPFGTMVVMFILWAFISFPLVLLGTVVGRNWSGAPNNPCR 392

Qy        299 VNAVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIFTSFWAYKIYYVYGFMMLVLV 358
              |  :|||||||||:: |:||  :||:|||||||||||:|||| ||:|||||||:|| |
Db        393 VKTIPRPIPEKKWYLTPSVISLMGGLLPFGSIFIEMYFVFTSFWNYKVYYVYGFMLLVFV 452

Qy        359 ILCIVTVCVTIVCTYFLLNAEDYRWQWTSFLSAASTAIYVYMYSFYYYFFKTKMYGLFQT 418
              || |||:|||| |||||||:| |||||| ||||||:|||:|| |||  |||| | |||
Db        453 ILIIVTICVTIVGTYFLLNAENYHWQWTSFFSAASTALYVYLYSIYYYHVKTKMSGFFQT 512

Qy        419 SFYFGYMAVFSTALGIMCGAI 439
              ||||||  :|   |||:|||:
Db        513 SFYFGYTLMFCLGLGILCGAV 533


RESULT 9
US-10-767-701-44284
; Sequence 44284, Application US/10767701
; Publication No. US20040172684A1
; GENERAL INFORMATION:
;  APPLICANT: Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof For Plant Improvement
;  FILE REFERENCE: 38-21(53535)B
;  CURRENT APPLICATION NUMBER: US/10/767,701
;  CURRENT FILING DATE:  2004-01-29
;  NUMBER OF SEQ ID NOS: 63128
; SEQ ID NO 44284
;   LENGTH: 594
;   TYPE: PRT
;   ORGANISM: Sorghum bicolor
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(594)
;   OTHER INFORMATION: unsure at all Xaa locations
;   FEATURE:
;   OTHER INFORMATION: Clone ID: SORBI-28MAY03-C12526_1.pep
US-10-767-701-44284

  Query Match             60.9%;  Score 1430;  DB 16;  Length 594;
  Best Local Similarity   59.3%;  Pred. No. 1.8e-130;
  Matches  261;  Conservative   74;  Mismatches  103;  Indels    2;  Gaps    2;

Qy          2 YIDDLPIWGIVGEADENGED-YYLWTYKKLEIGFNGNRIVDVNLTSEGKVKLVPNTKIQM 60
              :|||||:|| ||| |:| |: :||:|:| : : :| |||: |||| |     |     |::|
Db        136 FIDDLPLWGFVGETDKNSENKHYLYTHKNILVXYNDNRIIHVNLTQESPKLLEDGKKLEM 195

Qy         61 SYSVKWKKSDVKFEDRFDKYLDPSFFQHRIHWFSIFNSFMMVIFLVGLVSMILMRTLRKD 120
              :|||||  :|| |   ||: |||  ||:|:|||||||||||||||| ||||||||||||:|
Db        196 TYSVKWVATDVSFARRFEVYLDYPFFEHQIHWFSIFNSFMMVIFLTGLVSMILMRTLRED 255

Qy        121 YARYSKE-EEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVII 179
              ||:|::| :::: ::||: :| ||| ||||||||     :  |:|:| | |: |:| :||:
Db        256 YAKYAREDDDLESLERDVNEESGWKLVHGDVFRPPRSXVFLSALVGIGTQLAALSRLVIV 315

Qy        180 VAMIEDLYTERGSMLSTAIFVYAATSPVNGYFGGSLYARQGGRRWIKQMFIGAFLIPAMV 239
              :|::  ||  ||::::| |  || || ::||  | ||:| ||: ||| | : | | | :
Db        316 LAIVGMLYIGRGAIITTFIVCYALTSFISGYVSGGLYSRNGGKNWIKAMVLTASLFPFLC 375

Qy        240 CGTAFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCRV 299
                  | :| |||:| :  |||||||| :  :  |:  || |:||::||| || || ||||
Db        376 FSIGFALNTIAIFYRSLAAIPFGTMVVMFVLWAFISFPLVLLGTVVGRNWSGAPNNPCRV 435

Qy        300 NAVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIFTSFWAYKIYYVYGFMMLVLVI 359
                :|||||| ||:: |:||  :||:|||||||||||:||||| ||:|||||:|| ||
Db        436 KTIPRPIPEAKWYLTPSVISLMGGLLPFGSIFIEMYFVFTSFWNYKVYYVYGFMLLVFVI 495

Qy        360 LCIVTVCVTIVCTYFLLNAEDYRWQWTSFLSAASTAIYVYMYSFYYYFFKTKMYGLFQTS 419
              | |||:||||| |||||||:| |||||| ||||||:|||:|| |||  |||| | ||||
Db        496 LLIVTICVTIVGTYFLLNAENYHWQWTSFSSAASTALYVYLYSIYYYHVKTKMSGFFQTS 555

Qy        420 FYFGYMAVFSTALGIMCGAI 439
              |||||  :|   |||:||||
Db        556 FYFGYTLMFCLGLGILCGAI 575


RESULT 10
US-10-425-115-325582
; Sequence 325582, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(53222)B
;  CURRENT APPLICATION NUMBER: US/10/425,115
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 325582
;   LENGTH: 595
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(595)
;   OTHER INFORMATION: unsure at all Xaa locations
;   FEATURE:
;   OTHER INFORMATION: Clone ID: MRT4577_599C.1.pep
US-10-425-115-325582

  Query Match             60.9%;  Score 1428.5;  DB 16;  Length 595;
  Best Local Similarity   59.4%;  Pred. No. 2.6e-130;
  Matches  262;  Conservative   73;  Mismatches  103;  Indels    3;  Gaps    3;

Qy          2 YIDDLPIWGIVGEADENGED-YYLWTYKKLEIGFNGNRIVDVNLTSEGKVKLVPNTKIQM 60
              :|||||:|| ||| |:| |: :||:|:| : : :| |||: |||| |     |     |::|
Db        136 FIDDLPLWGFVGETDKNSENKHYLYTHKNILVKYNDNRIIHVNLTQESPTLLEDGKKLEM 195

Qy         61 SYSVKWKKSDVKF-EDRFDKYLDPSFFQHRIHWFSIFNSFMMVIFLVGLVSMILMRTLRK 119
              :|||||  :|| |   ||: |||  ||:|:|||||||||||||||| ||||||||||:|
Db        196 TYSVKWVATDVSFARXRFEVYLDYPFFEHQIHWFSIFNSFMMVIFLTGLVSMILMRTLRN 255

Qy        120 DYARYSKE-EEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVI 178
              |||:|::| :::: ::||: :| ||| ||||||||     :  |:|:| | |: |: |:||
Db        256 DYAKYAREDDDLESLERDVNEESGWKLVHGDVFRPPQSLMFLSALVGIGTQLAALILLVI 315

Qy        179 IVAMIEDLYTERGSMLSTAIFVYAATSPVNGYFGGSLYARQGGRRWIKQMFIGAFLIPAM 238
              ::|::  ||  ||::::| |  || || ::||  | ||:| ||: ||| | : | | | :
Db        316 VLAIVGMLYIGRGAIITTFIVCYALTSFISGYVSGGLYSRNGGKNWIKAMVLTASLFPFL 375

Qy        239 VCGTAFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCR 298
                  | :| |||:| :  |||||||| :  :  |:  || |:||::||| || || |||
Db        376 CFSIGFALNTIAIFYRSLAAIPFGTMVVMFVLWAFISFPLVLLGTVVGRNWSGAPNNPCR 435

Qy        299 VNAVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIFTSFWAYKIYYVYGFMMLVLV 358
              |  :|||||||||:: |:||  :||:|||||||||||:||||| ||:|||||:|| |
Db        436 VKTIPRPIPEKKWYLTPSVISLMGGLLPFGSIFIEMYFVFTSFWNYKVYYVYGFMLLVFV 495

Qy        359 ILCIVTVCVTIVCTYFLLNAEDYRWQWTSFLSAASTAIYVYMYSFYYYFFKTKMYGLFQT 418
              || |||:|||| |||||||:| |||||| ||||||:|||:|| |||  |||| | |||
Db        496 ILLIVTICVTIVGTYFLLNAENYHWQWTSFSSAASTALYVYLYSIYYYHVKTKMSGFFQT 555
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```
Qy        419 SFYFGYMAVFSTALGIMCGAI 439
              ||||||  :|   |||:||||
Db        556 SFYFGYTLMFCLGLGILCGAI 576


RESULT 11
US-10-437-963-141888
; Sequence 141888, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  APPLICANT:  Wu, Wei
;  APPLICANT:  Boukharov, Andrey A.
;  APPLICANT:  Barbazuk, Brad
;  APPLICANT:  Li, Ping
;  TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53221)B
;  CURRENT APPLICATION NUMBER: US/10/437,963
;  CURRENT FILING DATE:  2003-05-14
;  NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 141888
;   LENGTH: 617
;   TYPE: PRT
;   ORGANISM: Oryza sativa
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT4530_42949C.1.pep
US-10-437-963-141888

  Query Match             60.7%;  Score 1424;  DB 16;  Length 617;
  Best Local Similarity   58.9%;  Pred. No. 7.4e-130;
  Matches  259;  Conservative   75;  Mismatches  104;  Indels    2;  Gaps    2;

Qy          2 YIDDLPIWGIVGEADENGED-YYLWTYKKLEIGFNGNRIVDVNLTSEGKVKLVPNTKIQM 60
              :|||||:|| ||||| | :: |:|:|:| : | :|||:|: |||| |    :     : |
Db        132 FIDDLPLWGFVGEADRNSDNKYFLFTHKNIVIRYNGNQIIHVNLTQESPKLIDAGKALDM 191

Qy         61 SYSVKWKKSDVKFEDRFDKYLDPSFFQHRIHWFSIFNSFMMVIFLVGLVSMILMRTLRKD 120
              :|||||: ::|| |  ||| |||  ||:|:|||||||||||||||| |||||||||||| |
Db        192 TYSVKWEPTNVTFAHRFDVYLDYPFFEHQIHWFSIFNSFMMVIFLTGLVSMILMRTLRND 251

Qy        121 YARYSK-EEEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVII 179
              ||:|:: ::::: ::||: :| ||| ||||||||     : |:|:| | |: |: |:||:
Db        252 YAKYARDDDDLETLERDVSEESGWKLVHGDVFRPPRSLALLSALVGGGTQLSALILLVIL 311

Qy        180 VAMIEDLYTERGSMLSTAIFVYAATSPVNGYFGGSLYARQGGRRWIKQMFIGAFLIPAMV 239
              :|:|  ||  ||:::::| |  || || ::||  |:||:| ||: ||| | : | | | |
Db        312 LAIIGMLYIGRGAIVTTFIVCYALTSFISGYVSGALYSRHGGKNWIKAMIMTASLFPFMC 371

Qy        240 CGTAFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCRV 299
              |    :| |||:| :  |||||||| |  :  |:  || |:||::||| || || ||||
Db        372 FGIGLVLNTIAIFYRSLAAIPFGTMVVVFILWAFISFPLALLGTVVGRNWSGAPNNPCRV 431

Qy        300 NAVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIFTSFWAYKIYYVYGFMMLVLVI 359
                :|||||||||:: |:||  :||:|||||||||||:||||| ||:|||||||:|| :|
Db        432 KTIPRPIPEKKWYLTPSVIALMGGLLPFGSIFIEMYFVFTSFWNYKVYYVYGFMLLVFLI 491

Qy        360 LCIVTVCVTIVCTYFLLNAEDYRWQWTSFLSAASTAIYVYMYSFYYYFPKTKMYGLFQTS 419
              | |||:||||| ||||||||:| |||||| ||||||:|||:|| |||  |||| | ||||
Db        492 LIIVTICVTIVGTYFLLNAENYHWQWTSFFSAASTAVYVYLYSVYYYHVKTKMSGFFQTS 551

Qy        420 FYFGYMAVFSTALGIMCGAI 439
              |||||  :|   || :|| :
Db        552 FYFGYTLMFCLGLGTLCGKL 571


RESULT 12
US-10-437-963-116913
; Sequence 116913, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  APPLICANT:  Wu, Wei
;  APPLICANT:  Boukharov, Andrey A.
;  APPLICANT:  Barbazuk, Brad
;  APPLICANT:  Li, Ping
;  TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53221)B
;  CURRENT APPLICATION NUMBER: US/10/437,963
;  CURRENT FILING DATE:  2003-05-14
;  NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 116913
;   LENGTH: 596
;   TYPE: PRT
;   ORGANISM: Oryza sativa
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT4530_2036C.1.pep
US-10-437-963-116913

  Query Match             60.2%;  Score 1412;  DB 16;  Length 596;
  Best Local Similarity   59.3%;  Pred. No. 1.1e-128;
  Matches  261;  Conservative   71;  Mismatches  104;  Indels    4;  Gaps    3;

Qy          2 YIDDLPIWGIVGEADENGED-YYLWTYKKLEIGFNGNRIVDVNLTSEGKVKLVPNTKIQM 60
              ::|||  || ||| |:| |:  ||:|:| : : :| ||||: |||| |    |    |: |
Db        140 FMDDL--WGFVGETDKNNENKRYLYTHKSILVKYNDNRIIHVNLTQESPKLLEAGKKLDM 197

Qy         61 SYSVKWKKSDVKFEDRFDKYLDPSFFQHRIHWFSIFNSFMMVIFLVGLVSMILMRTLRKD 120
              :||||| ::|| |  ||: |||  ||:|:|||||||||||||||| |||||||||||| |
Db        198 TYSVKWLQTDVTFARRFEVYLDYPFFEHQIHWFSIFNSFMMVIFLTGLVSMILMRTLRND 257

Qy        121 YARYSKE-EEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVII 179
              ||:|::| :::: ::||: :| ||| ||||||||        |:::| | |: |: |:|||:
Db        258 YAKYAREDDDLESLERDVNEESGWKLVHGDVFRPPRSLAFLSAVVGIGTQLAALILLVIV 317

Qy        180 VAMIEDLYTERGSMLSTAIFVYAATSPVNGYFGGSLYARQGGRRWIKQMFIGAFLIPAMV 239
              :|::  ||  |||:::| |  || || ::||  | ||:| ||: ||| | : | | | :
Db        318 LAIVGMLYVGRGSIITTFIVCYALTSFISGYVSGGLYSRNGGKNWIKAMILTASLFPFLC 377

Qy        240 CGTAFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCRV 299
                | :| |||:| :  |||||||| :  :  |:  || |:||::||| || || ||||
Db        378 FAIGFVLNTIAIFYRSLAAIPFGTMVVMFVLWAFISFPLVLLGTVVGRNWSGAPNNPCRV 437

Qy        300 NAVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIFTSFWAYKIYYVYGFMMLVLVI 359
              :|||||||||:: |:||  :||:|||||||||||:||||| ||:|||||||:|| :|
Db        438 KTIPRPIPEKKWYLTPSVISLMGGLLPFGSIFIEMYFVFTSFWNYKVYYVYGFMLLVFVI 497

Qy        360 LCIVTVCVTIVCTYFLLNAEDYRWQWTSFLSAASTAIYVYMYSFYYYFFKTKMYGLFQTS 419
              | |||:||||| ||||||||:| |||||||||||||:|||:|| |||  |||| | ||||
Db        498 LLIVTICVTIVGTYFLLNAENYHWQWTSFLSAASTALYVYLYSIYYYHVKTKMSGFFQTS 557

Qy        420 FYFGYMAVFSTALGIMCGAI 439
              |||||  :|   |||:||||
Db        558 FYFGYTLMFCLGLGILCGAI 577


RESULT 13
US-10-739-930-9909
; Sequence 9909, Application US/10739930
; Publication No. US20040216190A1
; GENERAL INFORMATION:
;  APPLICANT: Kovalic, David K.
;  TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
;  TITLE OF INVENTION:  PLANTS AND USES THEREOF FOR PLANT IMPROVEMENT
;  FILE REFERENCE: 38-21(53377)B
;  CURRENT APPLICATION NUMBER: US/10/739,930
;  CURRENT FILING DATE:  2003-12-18
;  NUMBER OF SEQ ID NOS: 11088
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; SEQ ID NO 9909
;   LENGTH: 595
;   TYPE: PRT
;   ORGANISM: Triticum aestivum
;   FEATURE:
;   OTHER INFORMATION: Clone ID: TRIAE-23APR03-C2111_1.p
US-10-739-930-9909

  Query Match             60.1%;  Score 1411;  DB 16;  Length 595;
  Best Local Similarity   58.4%;  Pred. No. 1.3e-128;
  Matches  257;  Conservative   74;  Mismatches  107;  Indels    2;  Gaps    2;

Qy          2 YIDDLPIWGIVGEADENGED-YYLWTYKKLEIGFNGNRIVDVNLTSEGKVKLVPNTKIQM 60
              :|||||:|| ||| |:| |: :||:|:| : : :| |||: |||| |    |      : |
Db        137 FIDDLPLWGFVGETDKNSENKHYLYTHKNILVKYNDNRIIHVNLTQESPKLLDAGKNLDM 196

Qy         61 SYSVKWKKSDVKFEDRFDKYLDPSFFQHRIHWFSIFNSFMMVIFLVGLVSMILMRTLRKD 120
              :|| ||  :|| |  ||: ||| ||:|:|||||||||||||||| ||||||||||| |
Db        197 TYSAKWVPTDVSFARRFEVYLDYPFFEHQIHWFSIFNSFMMVIFLTGLVSMILMRTLRND 256

Qy        121 YARYSK-EEEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVII 179
              ||:|:: ::::: ::||: :| ||| ||||||||     : |:|:| | |: |: |:||:
Db        257 YAKYARDDDDLESLERDVNEESGWKLVHGDVFRPPRSLTLLSALVGIGTQLAALILLVIV 316

Qy        180 VAMIEDLYTERGSMLSTAIFVYAATSPVNGYFGGSLYARQGGRRWIKQMFIGAFLIPAMV 239
              :|::  ||  ||::::| |  || || ::||    ||:| ||: ||| | : | | | :
Db        317 LAIVGMLYVGRGAIITTFIVCYALTSFISGYVSAGLYSRNGGKNWIKAMILTASLFPFLH 376

Qy        240 CGTAFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCRV 299
                | :| |||:| :  |||||||| :  :  |:  || |:||::||| || || ||||
Db        377 FAIGFALNTIAIFYGSLAAIPFGTMVVIFVLWAFISFPLVLLGTVVGRNWSGAPNNPCRV 436

Qy        300 NAVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIFTSFWAYKIYYVYGFMMLVLVI 359
                :|||||:||:: |:||  :||:|||||||||||:|||| ||:|||||||:|| ||
Db        437 KTIPRPIPERKWYLTPSVISLMGGLLPFGSIFIEMYFVFTSFWNYKVYYVYGFMLLVFVI 496

Qy        360 LCIVTVCVTIVCTYFLLNAEDYRWQWTSFLSAASTAIYVYMYSFYYYFFKTKMYGLFQTS 419
              | |||:||||| |||||||:| |||||| ||||||:|||:|| |||  |||| | ||||
Db        497 LLIVTICVTIVGTYFLLNAENYHWQWTSFFSAASTALYVYLYSIYYYHVKTKMSGFFQTS 556

Qy        420 FYFGYMAVFSTALGIMCGAI 439
              |||||  :|   |||:||||
Db        557 FYFGYTLMFCLGLGILCGAI 576


RESULT 14
US-10-437-963-103141
; Sequence 103141, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  APPLICANT:  Wu, Wei
;  APPLICANT:  Boukharov, Andrey A.
;  APPLICANT:  Barbazuk, Brad
;  APPLICANT:  Li, Ping
;  TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53221)B
;  CURRENT APPLICATION NUMBER: US/10/437,963
;  CURRENT FILING DATE:  2003-05-14
;  NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 103141
;   LENGTH: 424
;   TYPE: PRT
;   ORGANISM: Oryza sativa
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(424)
;   OTHER INFORMATION: unsure at all Xaa locations
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT4530_1005C.1.pep
US-10-437-963-103141

  Query Match             54.5%;  Score 1278.5;  DB 16;  Length 424;
  Best Local Similarity   58.2%;  Pred. No. 7.4e-116;
  Matches  231;  Conservative   67;  Mismatches   98;  Indels    1;  Gaps    1;

Qy         44 LTSEGKVKLVPNTKIQMSYSVKWKKSDVKFEDRFDKYLDPSFFQHRIHWFSIFNSFMMVI 103
              :: :    |    |: |:||||| :::| |  ||: |||  ||:|:|||||||||||||
Db         10 ISQKSPTHLEAGKKLDMTYSVKWVQTNVAFARRFEVYLDYPFFEHQIHWFSIFNSFMMVI 69

Qy        104 FLVGLVSMILMRTLRKDYARYSKE-EEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSS 162
              || |||||||||||| |||:|::| :::: ::||: :| ||| ||||||||    :  |:
Db         70 FLTGLVSMILMRTLRNDYAKYAREDDDLESLERDVSEESGWKLVHGDVFRPPRSLVFLSA 129

Qy        163 LIGSGCQIFAVSLIVIIVAMIEDLYTERGSMLSTAIFVYAATSPVNGYFGGSLYARQGGR 222
              :| | |: |: |:||::|::  ||  ||:::| |  || || ::||  | ||:| ||:
Db        130 FVGIGTQLAALILLVIVLAIVGMLYVGRGAIITTFIVCYALTSFISGYVSGGLYSRNGGK 189

Qy        223 RWIKQMFIGAFLIPAMVCGTAFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVG 282
              ||| | : | | | :       :| |||:| :  |||||||| :  :  |:  || |:|
Db        190 NWIKSMILTASLFPFLCFSIGLVLNTIAIFYRSLAAIPFGTMVVIFVLWAFISFPLVLLG 249

Qy        283 TILGRNLSGQPNFPCRVNAVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIFTSFW 342
              |::||| || || ||||  :|||||||||:: |:||  :||:|||||||||||:|||||
Db        250 TVVGRNWSGAPNNPCRVKTIPRPIPEKKWYLTPSVISLMGGLLPFGSIFIEMYFVFTSFW 309

Qy        343 AYKIYYVYGFMMLVLVILCIVTVCVTIVCTYFLLNAEDYRWQWTSFLSAASTAIYVYMYS 402
              ||:|||||||:|| ||| |||:||||| ||||||||:| ||||| ||||||:|||:||
Db        310 NYKVYYVYGFMLLVFVILIIVTICVTIVGTYFLLNAENYHWQWTSFFSAASTALYVYLYS 369

Qy        403 FYYYFFKTKMYGLFQTSFYFGYMAVFSTALGIMCGAI 439
              |||  |||| | |||||||||  :|   |||:|| :
Db        370 IYYYHVKTKMSGFFQTSFYFGYTLMFCLGLGILCGTV 406


RESULT 15
US-10-425-115-206340
; Sequence 206340, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(53222)B
;  CURRENT APPLICATION NUMBER: US/10/425,115
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 206340
;   LENGTH: 500
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(500)
;   OTHER INFORMATION: unsure at all Xaa locations
;   FEATURE:
;   OTHER INFORMATION: Clone ID: MRT4577_119765C.1.pep
US-10-425-115-206340

  Query Match             49.3%;  Score 1158;  DB 16;  Length 500;
  Best Local Similarity   56.7%;  Pred. No. 5.3e-104;
  Matches  212;  Conservative   72;  Mismatches   88;  Indels    2;  Gaps    2;

Qy          2 YIDDLPIWGIVGEADENGED-YYLWTYKKLEIGFNGNRIVDVNLTSEGKVKLVPNTKIQM 60
              :|||||:|| ||||| | :: |:|:|:| : | :|||:|: |||| |    :  |  : |
Db        127 FIDDLPLWGFVGEADRNNDNKYFLFTHKNIVIRYNGNQIIHVNLTQESPKLIDVNKALDM 186

Qy         61 SYSVKWKKSDVKFEDRFDKYLDPSFFQHRIHWFSIFNSFMMVIFLVGLVSMILMRTLRKD 120
              :|||||: ::: |  ||| |||  ||:|:|||||||||||||||| |||||||||||| |
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```
Db        187 TYSVKWEPTNITFAHRFDVYLDYPFFEHQIHWFSIFNSFMMVIFLTGLVSMILMRTLRND 246

Qy        121 YARYSK-EEEMDDMDRDLGDEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVII 179
              ||:|:: ::::: ::||: :| ||| |||||||| : :: |:|:| | |: |: |:||:
Db        247 YAKYARDDDDIETLERDVNEESGWKLVHGDVFRPPCNLVLLSALVGIGTQLAALILLVIL 306

Qy        180 VAMIEDLYTERGSMLSTAIFVYAATSPVNGYFGGSLYARQGGRRWIKQMFIGAFLIPAMV 239
              :|:|  ||  ||::::| |  || || ::||  |:||:| ||: ||| | : | | | |
Db        307 LAIIGMLYIGRGAIVTTFIVCYALTSFISGYVSGALYSRHGGKNWIKAMAMTASLFPFMC 366

Qy        240 CGTAFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCRV 299
               |    :| |||:| :  |||||||| |  :  |:  || |:||::||| || || ||||
Db        367 FGIGLVLNTIAIFYGSLAAIPFGTMVVVFILWAFISFPLALLGTVVGRNWSGAPNNPCRV 426

Qy        300 NAVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIFTSFWAYKIYYVYGFMMLVLVI 359
              :|||||||||:: |:||  :||:|||||||||||||:||||| ||:|||||||:|| :|
Db        427 KTIPRPIPEKKWYLTPSVIALMGGLLPFGSIFIEMYFVFTSFWNYKVYYVYGFMLLVFLI 486

Qy        360 LCIVTVCVTIVCTY 373
              | || :||||| ||
Db        487 LIIVXICVTIVGTY 500
```

Search completed: August 9, 2005, 13:49:19
Job time : 97.1527 secs